

tattactctt ggctcaccag gggtgcaagg gataaattca ttataagttg gctttaaatg 240  
 ccgaacgact aaaatacaaa gaaacatggc cggagaacat atccaccta tgcagataat 300  
 ctagcagtct aagagtgatg cagactacga attaaagcga cgcctctatt ataagttaca 360  
 caaacaccgg gacaagata 379

<210> 20295  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 20295

tgatatggtc tacaccgatg aaaggatcat agtgagtcta taatgaggct aatctgatca 60  
 tcatactttg ataaatgcc aaaaaaatg gggctaatac ataggggtgag gatgaaggag 120  
 aagcccgtgc tgagactgcc attcctatac agcgaagttt tccaccgacc cagaaatgac 180  
 attactcage caatacccta ccttggttctt actcaccgcc cagtaatcca caaaggccat 240  
 ccctaaaaca accacaaagg ctgtcttccg tacttgcaat gacgaacatc acctttatca 300  
 cacaccaaga gcaccatcct atagatgaat cttgccgcga gaaagcctgt agaattcacc 360  
 ccatttccag tgtcatatgc tg 382

<210> 20296  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20296

agaatctttt ttgaacctga gacntgagag cacgtgacac tatnaagac gtctgcctgc 60  
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 ttataacatt gactggccat tacatgacca tggcaagaca ggaaaaactc ttacatcacc 180  
 cagcatagaa cgctggcttc tggccccct ttactgccct atggtaatcg cttggatgac 240  
 agtaccactc ttgcttaaca atgttcttta aacaaatatt gtggacggaa cgtgctgagc 300  
 attttttctt cgcaaaagac ggtataccta tcggatagcg gccctgacat cctgtatgca 360  
 tgatgccttc atgaaccac tcggaatcgg tattgacgat cgacttatga ttttgaactt 420  
 gctgactttg attttgctg agcttggcat atcaaataac ttggaagctt cg 472

<210> 20297  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 20297

tgcttggttg attatggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60  
 gcacaacaag tttttccaca ttcacaatgc gcgcataaac ccaccatccc ctgttgccca 120  
 cctgcaactg agctcgcgta ctcccacgta gcccatatcc tcgtttctct caacaccggg 180  
 tccccatcaa tcctctcaag ctccacaac atccaagcaa aacaacattc aaacagcaca 240  
 agctatcaca gccaagcaaa acagagcaaa ggcagaaaac tctgctcaac acatcaacca 300  
 aaatcacagt ttttctcacg taaagaccac agtaacaatt ctttcgatcc aattcggttaa 360  
 ccgttggtatc gactccaaaa tcttactgga ag 392

<210> 20298  
 <211> 109  
 <212> DNA  
 <213> Glycine max

<400> 20298

cgcatccaga caagaagcat tcaacacgcg ctgacgcat aaagaagaag tggaccaaaa 60  
 agtaattgca ggggaaatcc aacagggcct aagtggaggg gtgagaagc 109

<210> 20299  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 20299

tagcttggtg tgagctctag gagtcgttat aggcataaaa tagtcatcta cacgaggagt 60  
 gttcttcccc ttttgagact tggcagaaac ggatgatttt ggagttcttc ttaaatactc 120  
 aactattctt acaaggctct cattaaaggc attactttcc tcaaattggt cttgcatttt 180  
 tcttttcttg attttgatcat ttgttcaag tacttggttc atttgatggt ggacattaac 240  
 aagaaccttc ttgcaaagcc tcaacttggc cttttgtgccc aaccaagtga gccttgaacc 300  
 tattaatacc acctccctta acctatcttt cacaatataa atacacatca ttgtcacttt 360



tgtataacct tcatcaattt gtttac

386

<210> 20300  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20300

ntaacctcat cgtctctcac agtctttaga tttgggagct cttccagtcc ttttggtcgg 60  
actctcagcc acttatgata gccgccgatg atcccattac tgcttcccct aagctctctg 120  
tcctttcttc acgccgcac ccattgcctt cgaactcctt ggagtaccct cgcgttgtgg 180  
tcaactgaaac ctctgtcgat gaaaggcgtg atgctttcgt ctgatggcac tcctctcatg 240  
ggacatcctt cgcattgaaga tagaatcctg attcttcctt ccttctagcg aggggaaccat 300  
ttaacagacg cccctccatg ctaggcaaga gttggtgcac aacaaacaat tcttgcgccg 360  
ctcttttcac atccccggtc gaatgtgtca tacatggcca aaatggcgac gatcgggctt 420  
tcctttccat gatgaaacg 439

<210> 20301  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 20301

agcttttttag tttccaagtg ccaattcgtc ctcttcttta gtccagtctt cttctggctt 60  
caattcatca gcgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120  
gacagctttc caggttctgc tatccagtga tttgaggaag gccaccattc ttgctttcca 180  
gtattcatag ttgcttccat caagaattgg tggactgttc actggtcctc cttctttctc 240  
catgttcac agaatattac tccccacac tcactctgtg attgcgagtg ttggctctga 300  
taccaattga aattctgata ccattgggaca gatgtcgtac aggatgtcac gacatcacgc 360  
ttcagaacat gcagcatatg tg 382

<210> 20302  
<211> 438  
<212> DNA

<213> Glycine max

<400> 20302

tgcattgattc acattctccc cttttctcaa gcaaattctt aattcttttt gacatcatca 60  
aaatcttcat gatttacatt ctcccccttt ttgatgatga caaccacctg taggttagga 120  
gcaacaacaa agaaaaaata tctatttgaa tataatttac tcccccttgg ttttgcaatg 180  
attgcttata tgagacagtt gaagatttca tatttttcat atgtaaacia attgtctcat 240  
aaagaataaa taatttttct tactatttta tcttttatct ttctctcccc ctttgtcaac 300  
atcaaaaaaca aatcatgaat agagaggaga aagatgttac cacttggtga ttacatacat 360  
atattttatc ttttatcttg ttgattgcaa tgtatgagaa tgaagtata ccaaaaggca 420  
ttataacaat catttaat 438

<210> 20303

<211> 516

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20303

acacagccag cccacccga ctacacaaan acaaccannn nnnnnnnnnn nnnaaaaagg 60  
ggngtgagg cgtagnctac gaacacnna accnnacaag cgancnnaa agcccggccg 120  
caggcaggca ancaatttat gacatacacg cccaangaac caccgacctc aggagcacgc 180  
acgcaagaga tgaacacgct agaacgaaac acgcccacaa tacacacaga agagccgagg 240  
accacgaagg cccaaggaaa gaccaaacac caaacgacga ccaaaccaaa cgacacccaa 300  
gaagacaagc cacaaggaga caagagagga gaagcacaca acaacacca cgaggagaaa 360  
aacaagagga cgcaacagcg gacaaaagaa gaacaacagg aagcaagcca gcgaacacac 420  
acgacaccaa gaaaacgaca aaccggaaa aaccaacaag acagaacctg ggaccaccaa 480  
gacgcagaca aaagaacaca aagcacaaga cgggagc 516

<210> 20304

<211> 378

<212> DNA

<213> Glycine max

<400> 20304

agctttttat ctaaggaaca ttcttggtgg tgaagctcct tcttccatgg cttattccct 60  
 agtggatggc gtctaccatc tcctcttctt ctttgcccta cgctgcatct ccatggtgga 120  
 aaatcaccat tgaaggacct cattgaagct caaagattca gcctccatag aagctccaca 180  
 agcaagcttc catcaatgaa taacatgatt ctttacaatt tccaccgagt aatcttgcta 240  
 tagaagctac atttgattct ctatggttca aatttcttgt tcttgttctt gatcttgaac 300  
 catgaattgt gttgagtaca cgttcctttg agttttgact tgttattttt tgcggctgaa 360  
 acctacacca taaaatta 378

<210> 20305  
 <211> 343  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20305

aaatgaggaa taccttttgc atttacgcgt ctacatcgat aggcaaactt gttactgata 60  
 ttccctcaca atgttaagac ccacgtactt tctgtgtacc ttgcgttatt gggaacaaca 120  
 ttgttaagaa tgccatgcta gatttatgag catgagtgag tgccatgcct ttgtctattn 180  
 tcaattatat atcctatgga ccttggcaat ctacatatgg cctaattcat gtggcaaata 240  
 gaatagttgc ttaccctaca gctttcatat aggatgtact gatgagggtt ggtgaactta 300  
 ttaccctgt tgattattat gtgcatgata ttgaagaatg att 343

<210> 20306  
 <211> 367  
 <212> DNA  
 <213> Glycine max  
 <400> 20306

tcttgcttgt acattgcaca atgttggtgt tcggatgacc ttatgactta tgcatgctgc 60  
 attcttgtgg atcttgcatt cacattacat tattggtgac attcttttca ttactggaaa 120  
 gcttatattg ttattactgg ggaagcagca cacatttatg gccatcgtcc gtgatagaaa 180  
 ggaatcataa tggatggata agataatc ataaggagcc atcccacttc ttgaaccata 240  
 taattgatca tatggctggg ctaaccctcc tggggatgca ttcatggtta caggccctga 300

gtattttaca acaaggcgta aggatccatc tggatgaatat atgctcaaac ctctccgttt 360  
tgattgg 367

<210> 20307  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20307

tgggggttggt tgtttttttt ataaaaaatg tccgacaact tttagattct tttgacaaaa 60  
atgccttact cttttatctc tcagatttat agcacctgtg aactttgact ggattgagaa 120  
tttggctagg tcttggttga cgtgtaacgt gtgacattga gcctagatta taataaatgg 180  
aaaccaagta gcttcctgtc aaattcaaac tcgttgatga aaaactatgg ccacattaat 240  
taagactggt tacaagggtt tttgattttt agaagctgat agttgaagtt gttaagagaa 300  
tctaagcttg cttagattct gcaaatcctg tgacaaaaca acagcaagag gtgacgaaag 360  
aaatagtcaa tagtgaagga ttccgctgat gggaaggaag acaaangtgt ttgactcgga 420  
actagaaagt 430

<210> 20308  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 20308

agcttctagt cgtccataga cctcctctgt ggtacgggtc agcaaacggt gcctctgtgc 60  
attcatcgca tccactaaca gacgttgagc gccgtccaac tgatgggtact cgtcaccacc 120  
accacctgct ccagccataa ttcaacagga aaaaaaaaaat gtgcaataaa aattattaag 180  
gtttcaggac ctcaaacac tctactcacg tctcttagat ggtagtacac tcgtgtttaa 240  
tgctctcaat aggcttttgt gtaatgtatt cctctttgcc ttttaccact cgtgtttcct 300  
cttaagttcc tggatggacc aaattagaca cacaaggtaa tataaaataa aaggaaagac 360  
aatataatga tcacaaacag atttgatttg ggat 394

<210> 20309  
<211> 387

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20309  
  
 tcgccggatg atgccgatcg aacatttccc aagcgacatc atccaattgt tcttcaggga 60  
 ttgaatagaa taaacaatgg ccggtgtcgg tcactatatg gccccgactg atatccttca 120  
 gccgacattg cgcaatttct ttacaaaacg ctggccgaaa atgttttttt acggtagagg 180  
 aagttttttg tttttgggtt ccctaaaaaa attgcaatgt aggtcgggta gggtttttcc 240  
 gtgcgaagct caacctgang gttgtgcttc gggcgacact gacatgttct catttagtcg 300  
 gccaaaaaac cgttacccaa ccccgaggagg aaaaaaacca tctttcacia aaatggatgg 360  
 aaaaaaaaaat gatacctgac gtcggcg 387

<210> 20310  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
  
 <400> 20310  
  
 agcttattct ttttggcctt gcaagcgaag gagtcatca caaccaacac gcttacctg 60  
 cagcaagatg tttgtacctg gtaattgggt cagttagctt tttatatcag aaaatattaa 120  
 ttgttaattt tgtagttttt tattaagagg gaatcaaact cgagcctttt tttgtcttta 180  
 cttccttttt aacctctcaa tcaattttat attccgaatt gggttggtta ctttaattaat 240  
 actttgtggt tcttctctt cccactatg tatttcattg catgtatagt gtatacaact 300  
 tagcaattac gtaacgtaat atatatgtac tgtgttgtgt tatactggga tgtaggattt 360  
 ggagaagcat caccagaagc aaaggct 387

<210> 20311  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
  
 <400> 20311  
  
 tgatctgcta tagggttacc atcagattcg gatgcattat gctgatatcc ccaagattgc 60  
 tttcagaacc caccacgtcc attacgagtt taacgtattg ttgtttgggt tgtgcaacgc 120

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<400> 20312

<400> 20313

gaagggtacaa cagatgtataa aagatctagg ataaatacat tgactcgtga atatgaatta 420  
 tttagaatga atccaaat 438

<210> 20314  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 20314

agcttgata tattgtttgt gaaggacaaa agtgacttag tgataaagaa tacttgggtc 60  
 ttaatcttag gggaagatta agtgtagtgc caggagtgc ctatagagta ctcattgtag 120  
 ctagaagtgg catagagaat acttgattgt aatcaaagaa ttaattagt aaatccttca 180  
 aagtttgaag gaaaactgga cgtagcccaa gagttgggat gaaccaatat aaaacttgtg 240  
 ttttctttac tgcttctata taactagtgc ttttccatat gttactccta cactactcta 300  
 tccaagtttt gtgaactgat tttctaagca cataatgatt tcaaaccctc tggacgaaac 360  
 ccaacgtcta ttaatatcta tttgagaaa 389

<210> 20315  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20315

ntacagaaat aagacacaaa ctatcttgca caaaaacatt ccttcattta ttcttgtaaa 60  
 actttctata attctttgta taaacactaa gctctcaaaa catctttgta aaccttgaga 120  
 gaaaagacta aaagtactga gaaatatata tgtttgcaat atgatatgat attagtctgt 180  
 gtgaaaacct ccaacaaatc ttattgattt gtctagaacc aacagtggct aaggttgagg 240  
 aaccttggct ggggttatag ctaacactga attatcgagt agatatggga gcaagttagc 300  
 ataggacacc gaaattgggg tgaattctat aggctttttc gttggaatat tccctccctg 360  
 gttggcatct tggtttgtgt taagggtggt gtttggcatt ggatgtgcgg caggcaggct 420  
 ctgtggttga t 431

<210> 20316  
 <211> 394

Sequence of DNA

<212> DNA  
<213> Glycine max

<400> 20316

agcttctaga gcatgtatct ttacttgaca actatcatga gttgacagct tgtagaacca 60  
ttctgaggta ttctttttga ggttcccatt ttgaggaacc tttctaata gcatcttgaa 120  
ggatcattac aatagttatt atgatgtttg ctgagaaaaa aattcatact tgatagattc 180  
tggtgatgaa gttcatgttg ataaaccttt atgaagtagt acaacttcat caaacttgac 240  
acttcttcat agctgcaaac atttataagt agattgcttc aaaaacacta agtgaagatt 300  
caattgttgg tgtgatagtg ttttgtccat agttagacag tgtagtatct tcagacttct 360  
attatgatgc ttctcatcaa agcatgaatc gtat 394

<210> 20317  
<211> 444  
<212> DNA  
<213> Glycine max

<400> 20317

taatacacccg ccactacatc taataaatga aaaattatta atttaatgca tactatgcta 60  
ctcatgtaac aatgaatttg agattcatat taccttgtaa ccaatgaata cgatggtgtc 120  
cgattaactc ttgctgcaat gaagggcata cgataccatg cccaagattg caacaatgac 180  
gcacagccac ccattggtttt ggcattcaagg ttagtggtctc tacacaattc tttgtacaat 240  
gttgctagac aagcagagcc ccaactatat cacctgactc agttgagatc agcaaacaca 300  
atgagatata tcaaataaac ccaatttctc atcttggtcg gcattaaaac cccaccaatt 360  
agccgcaaaa tgtaagcttt acaattctct tctaactgtt gttgtgttgg ttctgaggga 420  
agtgaacat attatcttgc aatc 444

<210> 20318  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 20318

ttgctttaca tcccgatcaa gagctcggaa aagggatgct aatactgctg cactectact 60  
gtaatgactt gcctcaatca aattcgataa tcaaatagata tacataaaat gaactctcgc 120



acctgatgta tctggcatca aacagtcgcc tatcagcatc atgatatgag ctatagcatg 180  
 ttttgcaatg acaacatcac cagcattaac tggaagttgc tgacaatttt gctgcgacca 240  
 acttagataa atcattttac cctttacata cttaccatgt ggagtgtgcc ttattttatgc 300  
 ttgacgagca acacgtacat caccggcgat gatactagtt atcaacagtc catcaatcct 360  
 caggcccaac tgtatgggtca ca 382

<210> 20319  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<400> 20319

tattaaagaa tacatttatg ctggatttag aggtcttatt gcaaaataaa ttatcataaa 60  
 tatcatattg ggccttaaaa aaagcttata gccttaaata agtttgattc gcctcttata 120  
 aagggtaaag tctatctatt tttatctttt tgtctcatgt atgagtaaca atgattttta 180  
 tatttatatt tacataaagt ttgttttctc attggcccat taaccgatta aactatttta 240  
 tgccaaatta tacttttttg aaatctttaa tatgaaataa gttaaataaa ctaatagatt 300  
 aaacttaact tccaaaaaga tgtaatcaaa tttgtgtact tagttgccat ggaattcaat 360  
 gaattccttt gaaacttggg tgcgagggtt gagggctcta aaacgaaacc agaaatgcag 420  
 gaaggcttac acagacaat 439

<210> 20320  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 20320

agcttgctca aaacaaaatc taacattccg atccactcaa ttcatacaat ttctcattca 60  
 actcaatcac aacacttcat ttcatacgaa atcaaaccac tgaatatcat attcaatcag 120  
 ttcactgttc aaacatgctt ttgtacaagc tacaacact aaaacaacat aaatttaaaa 180  
 gtctggaatt taaaagacta ataaagcata aactaaataa ctgataaaat aaaactgttc 240  
 ataatttgca aaaaatttta aaaaaaaact atgcaaaatt taaaactctt ggtcatccta 300  
 ctgctgggtc tctgcatgct cgttcagatc cagcactaga gcagctgggt gatcctgtga 360

aatgggatgc tcttgetcca atgct

385

<210> 20321  
<211> 439  
<212> DNA  
<213> Glycine max

<400> 20321

tgtaggatta tggcgtaccc atcacatgtg gtactaggtg gcgggtcgggc gatggtgcac 60  
aacaagtttt ccacatgcac aatgcgcgca taaaccacc atccccctgtt gcccacctcc 120  
aactgagctc acgtactccc acgtagccca tatgctcgtt tctctcaaca ccgggtcccc 180  
atcaatcctc ccaagcttcc acaacatcca agcaaaacaa cattcaaaca gcacaagcta 240  
tcacagccaa gcaaaacaga gcaaaggcag aaaactttgc caaaacacca accaaatcac 300  
aacttttctc acttaaagac ccagtaaca attccttcga tccaattcgt taaccgttgg 360  
atcgactcca aaattttact ggaagtctat agtacatgaa cctacattgt gaccgttggg 420  
atctactagc aaacatcca 439

<210> 20322  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 20322

ttgcttctat gctgcaccaa cgactatgta ttattaactt agcatatcta cactttaaca 60  
tatagcatga aatgaagagc ctgctagatc tgactaccta taagcgaact ttacatttta 120  
tatataaata taatgaacta ttccttgatt caatacacgc tagcaggaca ccgacagatg 180  
ctttgaaagt ctcataccga tatacatgtt ccaggatagt gacaaccatt cgtgctcaac 240  
gacgcgttct accttcctta ggtatatgca gcagcacatg atcatgtata atcttatata 300  
tgacaattgc tagttatata tgttgagga aatcttcctt aagatgtaat ttctattggt 360  
agacgtccgg gatatcaaga aaatgtaatc aaaaaat 397

<210> 20323  
<211> 439  
<212> DNA  
<213> Glycine max

<400> 20323

ttgataaata tttatatgaa atatattcac ttaaaatgct atatatttag ggtaataatg 60  
gatggagaca ttatacgttt ttgttactaa agattttatt taactaaatt taaattgttc 120  
gtataaacia tttaaactaa ttatatgatg tattgtatta attaataatt aataatactg 180  
cattaataga atatatatat atatatatat atatatatat atatatatat atatatatat 240  
atatatatat atatatatat atatatatat atatatatat atatatatat atatttacgc 300  
atataaatat atatagaatt ttttgttttt agtatttcgt atattccaca actagatagg 360  
atctctatag ataagagat atgtatatgg cattatatat ataacattga tgatagatat 420  
gttctctacc gatgtcttt 439

<210> 20324

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20324

atgtctttat ttgtgtggga cggcgggctc tcttcgactt gttgtattcg acgctaactc 60  
ttaccgtaag attacttgcc gcgacgctag tgatcatgtg cgtactgatt ggctctttac 120  
ctggactata catccacga ttgtcatggg tgtataacat gctggaaatg tcgacaatgt 180  
gtatgactac tgcacgcctg ccgtgattag cgatgaacca gcatacaacg tgccgtctta 240  
tactggcact agacaaacag cgctgtccca tgagggactc ctacgctgat atgtccacca 300  
cctgtgaact agatgtatat cagcacataa tcgattctaa cgccgttgga ccataccgca 360  
cggctgatag tctctcttcc agaattatcn 390

<210> 20325

<211> 409

<212> DNA

<213> Glycine max

<400> 20325

ggttcgaggt acttaccctg tgaagatcga agatcgatga agaacgaatg aagaacgtcg 60  
aagaacggtt gtttcctttg cgagattcct cacggaaaac gttacggaaa cgtttcggaa 120

gcgcctcggc ttagattttc ttcacggaaa caatttttcc aagcaaattt gaaagagaga 180  
gaagtgccta aggggctgga ccccttcctt cttcattttc tcccctatct atagcaaaat 240  
aggggaggtg gttgcccggc agctcgccca ggcgagctca gctcgcccag gcgagcaggg 300  
ttgcttcttc cagaagcaac cgccttctgg aggaatcttc tggagggccc aagtgggcct 360  
gggtgctatt tgcaccccca ttgttactaa gtacaccccc ctctgcctt 409

<210> 20326  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 20326

tagcttatca cttttacatt aaaaaatata tatttttctt ttctagtga tatcattaca 60  
tatgtgcgtt gttgaaattt aaatatgcca ttctactgtt tatggaaaaa tatggagaaa 120  
ttaacgagga aattaagtca aaagatgggt aaaataaggg aaaagtgcaa tgcagtcgca 180  
aggttggaat ttatactgtg ccataagccc ataaccataa gagtaatcat atttcaatat 240  
tccaacggct gctacatctt tttttccgaa ggctgctaca tcttattatt gacacttatt 300  
acttttcgag ttttaataatt atttggtgac aatataaaat aatcatcact taaataaact 360  
attattgata taattaattc taaataatta tt 392

<210> 20327  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20327

tctgtggttt tttatcagca aagataaata tattcatata tatgaaaaga gtaccagagg 60  
tactttaata cagctgtttg gtttctgaga tttggttcct aaacagatta gattaaatct 120  
agaaaggagc caaaaccagg cacctattac acttttagta tgtagcttaa accagaattg 180  
catcatctac taatacataa accttgctcc aagattacta ggagagataa tctgttttgt 240  
tgaaaagtfg cacatgggag tctctagtgc ttacttatgt ggtgtatctt gttagtgtgt 300  
tgttctgggtg tctgtaactc ttgagggcta caacatctca caccttgtga ccgttggtca 360  
acttctcttt tataaaaata ccatcccaat tntctctatg aatttgaata agattcatac 420

aataatagca tc

432

<210> 20328  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 20328

agctttaacg taaacaaaa caccaaccaa gaaatgaatt ttgcagcgag aaagccttag 60  
aattcacccc aattccagtg tcctatgctg acttgctccc atatctactt gataattcaa 120  
tggtagccat aaccctaacc aaggttcacg aacctccatt tgtccgagaa tactactcga 180  
acgcaacgtg tgcttgtcat ggagaagccc cggggcattc cattgagcat tgtagggggc 240  
tgaagcgtaa ggtgcaaggt ctaattgatg cgggctggct gaaatttgag gagaatcgca 300  
tgtaaatect gacattaaca agagatgccg cacatgggtg aattttgaaa gttgttggtta 360  
gatgtctctg atgactca 378

<210> 20329  
<211> 431  
<212> DNA  
<213> Glycine max

<400> 20329

tcacatctcg tattecgctc attctgatct tagtataaag gtaaccgatc tacaatgtat 60  
aaatgaggat tcattgcatg agtaatgttt gtaagagttc agtgtaatga tgaaaaccag 120  
aaaggtaaag tgaacaaatc ttgtgcaact atgatcaaat aatgggtccat ccgttataca 180  
agcatatcta gacctatttg ttttgggata tacagtttac tgaccatgag attctagttt 240  
tggaacctatg gttttcaggt tgaagtaagc atgtagctgt gtcaatatat gctgaaaaga 300  
cttccactgg atctttcccg atttccctta ttattatttg ttgtggaatt tcttgaatgc 360  
attaatgtca agtatcctgt cccaaataat aaattcatat tctctgttca ttatgcttgg 420  
caggcgaggg g 431

<210> 20330  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 20330

agcttgtcac ccagctcgcc caggcaagcc aggttgcac ttccaaaagc aactgccttc 60  
tggaggaaca tcttggaagg cctagtgggc ctggtttcta tttttaccct tttttagtaa 120  
atacaccccc atttgctttt ttgtgtgatt atttttctgt aatgttaca aactttacga 180  
atttcgtaac gatacttggt ttattttcgt aagggtacgg aacctttcgg gtcagtgaat 240  
tactcctttt ttagctttcg gaatgttacg gaaactcacg gattgcgtaa caatacttcc 300  
ttttgatttc cggcatgtta tggaatttca cggattgcgt aacaatgctt ccttttgatt 360  
tccggcatgt ct 372

<210> 20331

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20331

ttnggacaag cctataccaa ggctcaaata aacttgaaag ttctagacaa ctttcccaag 60  
gtgtggaaga caacaagcac ccaaaatgct agagacctaa agaacctttc ctaggatgaa 120  
ctgttggggg ttcttagagt ccatgaagcc aacctttcga atagatatca tatgtgtcat 180  
accctaattt cgtccggggg tcattatttg atgatataca acctttgatt ggccgcttcg 240  
agatactggg caccctttgt ttacaatat gtgaagtccc gagacgtgcc aaaaaatcaa 300  
aaggaagcag gcttacgcga tccatgaaaa ttccgtaatg tgacagaaat cgaaatgagg 360  
tgtttatcgc aatccgtgag ttttcgaaac ttcttcgaaa gctaaaaaag agtaaattca 420  
taatctgtg 429

<210> 20332

<211> 387

<212> DNA

<213> Glycine max

<400> 20332

agctttacaa cagatttttag taatgaccca ctaacctaga attaaaataa cttaatgcca 60  
ttaacctagg gaattaaaa aaaaaactta atggctgagt gtaactgaaa ttgtggcaac 120

caaaagtcac ccccaacagc caacaagtca gccaccattt ggtctcccaa aagggtgagg 180  
 cctaggttgc caattgggcc cttattacaa cttgaactaa acctactaaa gccctttaag 240  
 ttgattaacc caaaacatat ttttggtcag ccaactttac aaggattggg ccattattta 300  
 gacaaactaa acactctaaa attgagacaa agtgggtgcca tttagtcttc ctccatttgg 360  
 gccatgatac aactcacaac cttggac 387

<210> 20333  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 20333

tgtggattac ggggttggtt tgcattgttg gcagactttg aagaagcttg tggttaaagg 60  
 gtctgttttg tctttctcat aatctttgaa ggagcttgta gttaaggggt ttgttttttc 120  
 tttttcacia tatttgaaga agcttgtgtt tgaggtgctt gtttccttta attcagctaa 180  
 ccaccttttg gttgaattcc ctaaaccaat aataagtgtc attttaagta attaacatat 240  
 aaaagatggt aactaatgta aataaagatt agagacttac caagttactt tccttattag 300  
 ttgctgcac tttgtcattc ttcgtgtgtt gagggataag ttctttctta gcttgattga 360  
 ataacatgta ctatgttgtc attcctagtg actctgctgt caagaactgt gttgttattg 420  
 tggcgtccct aaattaatga ct 442

<210> 20334  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 20334

agcttcttgc ttgaaaataa gatgacttat aggagtaatt ttcttcccat acaagtactt 60  
 ggatggaagt atattttcaa gtaaattcac catgtaatat tcttgtttac tactacttca 120  
 taacctactc ataaaaaact attgaatcta ttgactaaca atttttattt ttcacttttc 180  
 tttgtcaaga gtatgttggt aggtctggat gatcattcat acctatatta gggtttgatg 240  
 attaacaag aatataagt gttgatatat taatgatgag tttacgacaa gtggatatga 300  
 tcaatgttat taacgagctt aactgttacg acaagaaaaa aatactttgt ttattattaa 360

ctagcatcta acgcgcta atcaagagca t

391

<210> 20335  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20335

tgcattgtcca agtttcttgt gccataccca gggatttccct ttgatagata atagacatgt 60  
tacatcttga tttgatagtt cactaggatt aatcttataa agttttcttt tctcttagc 120  
agtaaaaatt tgggtcccat tttcgtgttg gatgacacac ccacctttgc tgaaggaaac 180  
atcaagtcca atctcacata attgacttat gctaagcaga ttgtatttaa gtcctttaac 240  
aaatagtaca ttctcaatgg gaggataggg atcaatactt atctttccta ctctttctat 300  
cttccctccg aaaatgattg ctccaccatg catgagggtc agacattgga atatacattt 360  
ttctcatgtc atgtgatgtg agcagccact gtccagggtc catgattggt gtgtttntgt 420  
tgtggttgaa tatatccgca acaag 445

<210> 20336  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 20336

agctttatgc ttgcttctta atctttttct ttcttggtcg ggttttagcc ctttattcca 60  
gaaaaaaaaa aatacaatat ttgaaagaga aagattcggt acaaacacca actaaaatat 120  
aaaatatgtt gcttaacttg ctttactttt aacctgctga tgtctttgaa gatagaaaaa 180  
aaaatgaata ttcacgactc aaatgaagta aagaaaaaga aaacagaata taatggatag 240  
aacattatat attttgtacg tgcagtaaag ggggcgaata aacacaaaat tgaagaaagt 300  
agcaagagag gggcgggtgg tgcacaatcg aaatcttgaa gaggaaaaat acattatatt 360  
cgtgcatatg cttattagat aggggggggat act 393

<210> 20337  
<211> 440  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
<400> 20337

ctgttgcttc taattntaaa ctttcaaagt tatcagatac ttgagtagaa atttctaaag 60  
aattatctat cttttcttca tgtttccctt gaagttgttt ataatctttt gaaacactat 120  
tgaagtcctt tctcaaattt tgataagcta tggacaaagt ggatgagttg gagagaagtt 180  
cttgatattc taattgaaga gtttcaaggt tgtttatatt tacctcttca tctgattctg 240  
aattagatcc ttctgatgta gtgtctacta tcaaacatag gtaggctttt tcttcttctt 300  
cttttttctt cattggatgg tgtgttgctc atctctttcc atgtgcttat caataatttc 360  
ttgttctttg gtttgaagta ctttttcttg tcagttatct tatcaagatc tggacattct 420  
gacttgaaat gtcttagttt 440

<210> 20338  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 20338

agctttattc tatctgcaat gtttaacaac ttaaaggacc aatgtctgat tctccccact 60  
atcttctcca caagaggcag gtaatgatgg acattgagtt tcttgcaaga caaaggaacc 120  
cccaaatac ggacaggcag agatccctct tcaaaccttg tgatcttctt tataactcga 180  
atgatgtcac aattcaagcc accacaaaac accttacct ttgttggtt aatctgtagt 240  
cctgtagact tacaaaagaa actgaaagcc tttagaatca tctctataga cttctcatca 300  
cctctacaaa gaagaagaac atcatctgca aagggcaaat gagtaatcct caatcgctca 360  
cattggctgt gattattaaa gttaggatct ct 392

<210> 20339  
<211> 440  
<212> DNA  
<213> Glycine max

<400> 20339

tgtaagacaa aatacgagat ggaggcgagc aaggacaaaa tggcgttgct gagaagggtca 60  
tggtgatgct ccttgatggt catcacgcca gtttttgcag tgctgcctcc agactcgacg 120

acatcactat taaccaacag atagaagatg ccacaataat gttattgttg ttgtagatgc 180  
gcattctcctt ttagtgcattg acaccgagggc atgcactttct cgacgggtcct caacaatggc 240  
gatgttgctg caatttttga gatctacctt tttcgaactg ttgttttagg gaggatgaga 300  
ggatgaagggtg gagcaatcat tgagtgaagg caacatgaat aaacaatgta taccacaact 360  
aggattttttt aaaggggtgaa actgaagtgg tcttccatgt gtccatattt acttctaagt 420  
atcttctgct accttctcac 440

<210> 20340  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20340

agctttgatg atatggtctt caccgacgaa aggatcaaag tgggtctgaa aagaggcaaa 60  
tctgatcatc ttgctttgat aaatgcaaaa aaaaaaagt tggggcaaat aaagaggggtg 120  
aggatgaagg agaagcccggt gctgtgactg ccattcctat acagccaagt ttcccatcaa 180  
cccaacgatg tcattactca gccaaataacc aaccttctcc ttaccaccgg ccagttatc 240  
caaaaaggcc atccctaaaa taaccacaaa gtctatcgct cgcaattcca atgacgaaca 300  
tcaccttag cacaacacaa gagcaccaac caagaaatga attntggagc gagaaagcct 360  
gtagaattca cccaattcc agtgtcctat gctgacttg 399

<210> 20341  
<211> 443  
<212> DNA  
<213> Glycine max

<400> 20341

taaagtatgc ccgagtcatt catccctatg agatgttggt gaagtattgg cgatcagaat 60  
tgccattcct tggattatag ggttgaacca agctcatgct tttaaaaaa ggttcatcaa 120  
gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaatcgagtc 180  
acatcactgc ttcgtctact gccaaacaca tttaggatta ttgatgtcct tgttacttcc 240  
agtttcacct tgacaaagat gtcgtggacc atgttgaaaa tctaaattga ttcaacccca 300  
tatcctgcgt aaaaattcgc aatcttcaac tgtacatcat tcgcatacat ccatgctttt 360

cattggttgc attgctcatt gcattctttc cttgaaaaag aaaataaaaa taaataaata 420  
aataaaataa aataaaaatg atc 443

<210> 20342  
<211> 371  
<212> DNA  
<213> Glycine max  
  
<400> 20342

ttgcttgaca cccagatcac ccatacgagc aaggttgctt ccttcagaag caccagactt 60  
ctggatggcc caagtgggcc tggttgctat ttgcaccccc cattcttact aagtaacccc 120  
tctgcctttt ttaggagata atttattcac aaagttacgg aaacttatga ttttcggttac 180  
gataacttgtt ttctttccat aatgtgacgg aaccttgctg attacataat catccacttt 240  
ctgacttact gaatgttacg gaacctaaact aattgtgcaa cgatgcttac atttaactat 300  
ctgagtgta cggataccta cagatagtgc ataataatctt cttttatttt ccggcacgat 360  
ccagaattca c 371

<210> 20343  
<211> 434  
<212> DNA  
<213> Glycine max  
  
<400> 20343

tagagaatac taagtcgaag ttttgaaggt ttttaatgct gggttgatg ttgcttccag 60  
aggcaagcaa agaataattga gtggaatttg tagagggtta aaatataggg tgtagaagct 120  
tgtagatgat tcaaaagaaa gaattccaaa attgtgtgct tgatcttaat ggaaaaatcc 180  
tgccagtgtg ggtattggat gtagccaagg ttaggggtgtg tgttgatatc ttatttactg 240  
ttctcattta gttgtagcag ttacataatc attcttaact ttgaaaaacc tttgtttcac 300  
aaaagcttta ctcttatatt tcatcaaaag atttttacaa agtagatata atgttcagaa 360  
gcaacatgca ccttgtaaaa gaaaagtga aatcaaaata tgtgagataa cataattggt 420  
gatatgaaga gtag 434

<210> 20344  
<211> 387

<212> DNA  
<213> Glycine max

<400> 20344

ttgcttgtag aggatgcttc aatggaggaa aagaaagatg atgagaaaga gagagggggg 60  
gagcatgaaa ttgaaggaat aaaaaggag agaatgtgaa atttgagttg tgtctcacia 120  
gactctcatt catcaaagtt gcaacatgtg ctacacatgc ttctatztat aaattaggta 180  
gcttccttga gaaactttct tgagaaaact ttcttgacaa gcttctttga gaaaactttc 240  
ttgagaagct agagcttagc tacacacacc cctctcataa ctaagctcac ctccttgaga 300  
agcttcctta agaagattcc tatagaagct agagcttagc tacacatacc tctctaatag 360  
ctaagctcac ctccttgaga tgagaag 387

<210> 20345  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20345

ctttgattnt gacttgatag aaccttttct taatcagagg tgtttgattt gatcccatgt 60  
ttaataaaat gaaaagttct gtttgaatca atactctgat atcctatcat ggaggaaata 120  
ggatgaattc atgaagggat gcttatgttg tgcacgacac aaatacattt tacggacatg 180  
agagcccga agatcgtctt ttcttacttg caacatttgg cagcacagtg ccccatgtat 240  
gcatttaaga agacaataca gaccttccga cttcctgtga caaatgacg agaccaaagt 300  
caatgcatgc gcgacaacac aatacaaaaca taaacgcata aaaacgcatg gttgatagca 360  
cagaagagga acgtacaagc atgtcaatat catcaaaca ttatacaaca gagatgcaca 420  
tgagcatgac actaaaaata 440

<210> 20346  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 20346

ttgcttttcc cccaattttc taaaaatagg gggagatgtg aagtagaaaa gggttcagcc 60

ccttatgcac ttctctctct ctcgaaatag ctgaggaaaa ttagttctgt gaagaaaatc 120  
 taagccgagg cacttcata acgttacgt gacgattccg tgagttatta cgcaagatt 180  
 ctcgaccgtt cttcaagatt catcgttcgt tcttcgtttt cttcagtctt gaacgggcaa 240  
 gtacctcaaa ccgagctttt caattcattc tatgtaccgg tgggtggcca cttttgttt 300  
 catgtgttgt gtattctcgt ttccatttac cttatatgcc ccttcagac gtgcctaagc 360  
 cat 363

<210> 20347  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20347

tctcccncaa ttttctataa atagggggag aagtgaagta taaaagggtt cagcccctta 60  
 ggcacttctc tctctttcga atttgcttag gaaaattggt tccgtgaaga aaatccaagc 120  
 cgaggcgctt ccgtaacgtt tccgtaacgt ttccgtgagt gatttcgcga aggttttcat 180  
 ccgttcttcg ttcttcaacg ggtaagtttg cgaatccgag actttcaatt cttttcttgt 240  
 tttttttaat ctttcatctt tatttcgttc attttcgatt tcttttcttc cgtctttaac 300  
 gcgcttttac cgtttattta agccgttttc tcaccttaata aatgataaaa tgaatttcaa 360  
 ccgatcattt gtgttgtaat ctcatttaac cacttttaaa acgaaatcta accgaccgtt 420  
 cacgctataa cctc 434

<210> 20348  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 20348

agctttgagc caatatcttg actcaccgta aaccttgacc cagggtgaga atgtcaatcc 60  
 ttaccctcgg aagcaaaaaa aagaagagaa ggaaaatttc caatcaaagg aaaaaagaga 120  
 ggaaaggaaa ttcccaatca aagagtggga gaaagcaaaa agaaaagaaa gaaaattcct 180  
 aatcaaagaa tgggagaaag aaaaaagag agaaggagaa gaaggaaaga aagctcctga 240  
 tcaacgatcg aaagaaaaca gaagaaatgt gcagagaggt ctttggacca gacaatatct 300

gaacaatacg gaattgtcac caaatgaaca aaagaaagaa aaggaaacca taacctaaaa 360  
gtgggtcttct ccttttgatt accaaccaaa a 391

<210> 20349  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20349

tgcccagaga atgagtccac ggaggaaatg cttaccacct caaaagactg gaaagcgggtt 60  
tctaatactact cctctgcggc ttccacataa ggcataagagg acgggcagct caccaagagg 120  
tcttcctcgc ctgacacgat gaccaaactgc cctccacta cgaatttcaa cttttgggtg 180  
agtgtagagg gaacaactcc cactgagctg atccacgggc gcccacacag acagctgtag 240  
gggggggttaa tatccattat ttggaagggtg acttgacagg tgtgagggcc tatttgact 300  
gggagatcga tctctcccct aacctctcgg cgggtgcggt caaaggcatg aaccaccatt 360  
gaactcggct ntaagtggga agcattgaat ggtaatttct ccaaagtgtc cttaggcatc 420  
atgttttaac tggaaccat 439

<210> 20350  
<211> 385  
<212> DNA  
<213> Glycine max  
<400> 20350

agcttctctt ggactttaag caagcagcta actcgtcttt taagaccatg ctatgtgctc 60  
gtgattgggtc tctctctttc ccttcgaagc ttgagctcat tgttgctgcc ccacaaagct 120  
ccacgaaatt tgtcacgacc atgctcttcc ttgcgagccc tcttggtttc ttgttcaagg 180  
gctcttgagg tagctgcatt ttcttcttgt aaccacagcac actctttccg aacgtctgta 240  
tcgaccaact tgaatttttc tttggcaagt cttgcttttc ctagttcggg ttttagagct 300  
cggacttctt catcctcttc tggagcttcg aagttctctt cgtcgataat ctttaacttg 360  
gagagccaat ctaacctca tgtac 385

<210> 20351

<211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20351

ctcagctatg ctgcnacatt ataatagacc ccctcagaag catttccaac aacagcagaa 60  
 taattatgat ctttcaagca acagatacaa tccaggttgg aggaatcatc caaatttgag 120  
 atggacaagt cctccacaac aacaacagcc tgtccctacc ttccagaatg ttgttggtcc 180  
 aagcaagcca tatgttcttc ctccaatgca ataacagtag cagaagtcac aacaaagaca 240  
 acaagcaact gaggtctctc ctcaaccttc cttagaagag ttagtgaggc aaataaccat 300  
 ccaaaatatg caatttcaat aagagacaag agcctccatt cagagtctga caaattagat 360  
 ggagcaaagt gctactcagt taaaccaagc tcagttccaa aattctgaca aattgccttc 420  
 acagactgtg caaaatccga aaaatg 446

<210> 20352  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 20352

agctttatgc cattcggaat aggggctcgt gtctgtgttg gacaacactt agccatgaca 60  
 gaactgaagg tgattttgtc tctcattctg ttgaagtttc acttctctct ctcattaagt 120  
 tactgccatt cacctgcctt ccgtttggtt atagaacctg gccagggagt tgttcttaag 180  
 atgacaagaa ttttaagcaac aatgtaacag atgaatgatg aaaacatgca ggtaatggga 240  
 tggttgatat agtcataaga catcatttct ctagctgatg aatgctaata agtctttttt 300  
 tttatccaaa ttagataata atattttttt tttatgacag gaagatattc tcatacttcg 360  
 aagttatgag acgaaga 377

<210> 20353  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20353

tggttttttc caccacgtng aagaccgtga catctctctt tttcttttcc atcgccacct 60  
 tacctaggta cgttttgtca aagctttgtt gttctattga atacttaggt cagcttgggg 120  
 aactcatggt taaccaagg accttttttg gtttctactg caaggattgg ggaacttgta 180  
 gtgacctgag gtacgtttgt tgtcgcggtc actggtgctg aaaggctctc attttgattg 240  
 aggcaagtcg tgctcacttt gtagttcttt gaatgcttaa tgtctgttgt aaaactaggg 300  
 tagcatagtg tattgtagtg tagtgttctt cattctgttt gaggtagcgt agttaacttg 360  
 tatgttcatt ctgtttcatg tacattgtta caaactgcat tctacggaat aatagttaac 420  
 tcgtatgaac t 431

<210> 20354  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20354

agcttattag tgggaaattt tgtaagactt aattcacccc cccccctct taagttattg 60  
 aggccacttg tccaacaagg acactatctt aatgagctta agcattatct cgatggtagg 120  
 tatatttctc cttgtgaaag agaccacttg ttgttgaaag attgtacttt cattttctgg 180  
 ttgattcaa taatatttga agatgatgac aacattgatg ctttgctctc caagccaatt 240  
 gttaaggagt ccatgtttac ttggctacaa gctaatagca ttttcaatga aggaaaacat 300  
 ctaacatatg tgcaattcat aacaaagttt acatatgtag ccaaggatag atgttggaag 360  
 ccacgcanag gaggttatac aattgacagg ct 392

<210> 20355  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <400> 20355

tgttacagaa cttaggaaaa atcaagaaca agcttggtcg cacatcgttc gcgtgttoga 60  
 tatccactcg acaaggtttg aagtagagga gaccttcaat cctataacgc aacgtggcgg 120  
 acaaaaatgg gcagttaact tgaatggcca ttattgtcaa tgcggaaggt attctgcgct 180  
 tcactatcca tgttcacaca ttattgcagc ttgtggttac gtgagcatga actactacca 240



atatatagat gttgattaca ccaatgagca catcttataa gcatactccg cacagtgggtg 300  
gcctcttggg aatgaaacgg caattactgc ttctgatgag gcatggacac taatccctga 360  
cccaactaca attcgtgcga aaggtcggtc aaaatcaaca aggataagga atgatatgga 420  
ttgagtcaaa ccatctgacc a 441

<210> 20356  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 20356

agctttatat gatatcaaac gaaatttttt gcaacctaac atgtttattg ttaacattat 60  
aaacatcttt gttaattaaa tgacaattat ttaagcagta atatataatt gtttattaca 120  
ttttgtttgc acccaagcca ttgcacaatg ctttctattt tcaatgtgta gttgggtgta 180  
taggataagt gtttttagtg cttccagact agccgttttag tagcttggtg ccaacctaag 240  
aatttttgta gccttgtaga caaccttatt cacaagaaca caattcaggt gatagagtta 300  
gatggaaaat tataataatt ttttaactat aaatataaat aaatatttgt gccccacatc 360  
tagattcaat tattgtgaat ggagtaagct 390

<210> 20357  
<211> 451  
<212> DNA  
<213> Glycine max

<400> 20357

cgctttcttt ctaatcaatc tgtctattga ctaacatttc taattgcaat ctacaaaact 60  
tggtctttct ttgtctatca tacatatttg ctcaaactca tgataaaaca aaatcttcat 120  
ttcaaccatg tattcaatcc ataatcacca tttcaaactc ttatcaaact gcattttcaa 180  
agaatcaagt taaactgttc tttatgcac aggactttca aaatgtttcc aaaacaaaaa 240  
gtatgctata aaccatattc acatgccaca aaccataata gttcatacgt actaaaacca 300  
tacaaccact atactacaca aacataataa ttaaaatgta ctaagaatga tataattata 360  
ataataatta ggacatgtaa tcaaactctg tcattcatct cgatcctgct cctcatcatc 420  
gaaatgtaac actggcggtg atgcaatcct a 451

<210> 20358  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 20358

agcttcttgc cattttaatg tctgcagttc acaataaaga caagtagatg aagacataac 60  
 aagtaaattc ttgaataata ctaatacact acaatctatt gcagttttga ttttaccttt 120  
 gattcatcat tagcttcttt ggcagcagaa gcaaattctt gaatcgaagt atttagtgga 180  
 tgtagagtaa tctgcttgtc taacaagtag ctgagtatgt tattgtagac ctgtccaaag 240  
 tacgggaaga ttatagactc agtaatgata taggaacact tccaagttcc aacgaagcca 300  
 taacagtgca acattaaaat tgaataattg ataaatattt attcaattca cccacattt 360  
 tactctcttt gcctctgcca aatatttagc ct 392

<210> 20359  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 20359

gaccttcaca ctgcgcttac atgtccaggc ctggactgtc tgggtccaaa tggttagaca 60  
 atgggtgatt tttatgccat gcaatacgat ttgacagact ccaaaatctg cattgaagaa 120  
 gagctaaacc ctatcagcac atatgcacca gagatatact gctatatatc tatacgcaat 180  
 gataatgtta ttccacattt tggagtaaata taaagtgaag gactatacat acacgataag 240  
 aatgatcaag aaggcagaat gatttgcttc cacatgctat tggggatgct aaacgaagag 300  
 acataccata aaaaggacaa tgaaatgtac aatgcgtgat tgtatgttgc gtatactcca 360  
 taatacgagt gatcgacagg cccgtagcaa taatcattat cccgcacttt ttcgtgagtg 420  
 tccaacga 428

<210> 20360  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 20360

agcttttgtc cacttttagaa ccacttgaat ccgttcaaag gttcaacgcc ttaaacggtc 60  
 tttttacttt taaacgatta aaatgaacct ttagaagtct aacatcaaac ttatgtgtaa 120  
 ttttttttca tcaaagaact atgtaggtct gagttttctca tcgcaattga ggatacatag 180  
 gagcaagagc cccgctattg tcgaccccaa aaagataaaa aacataaaaa atggaaaata 240  
 aaagaaactt ggtgtcatga ttttgcacac ttgattaaac gctgttggtcc cttgtgacgg 300  
 acgcgtgggg tgctaatacc ttccccatgt ataaaaaact cttgaacctt tattttcttat 360  
 aatttgtaga cccatttttg gatttttctaa catttttcg 398

<210> 20361  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20361

tgctccttggg ttagacatga ttggtacatg atttgggact tgtagttatt aatttgggca 60  
 aaattggatg agggaaagag tggttttcga aatctgcact gtatgcagaa ttttgcgtgtt 120  
 gaaatgtgca gcaaaatfff gtataagtgc agaaaaaagc ttgtgtatgg ctggttgtaa 180  
 aaaggggtatt acatatgggg ttctggaaat tatctaagag atcccagcgg tcaaaatgta 240  
 gacttatgta ctanagactt ccagtaagat tttcgagtcg atccaacggg taacgaattc 300  
 taacgatgga catgttactg gggatatttg atgtgaaaag ctgtgattgt gggttgtgtt 360  
 ctgggcagag tattctgcct ttgccctggt ttgcttggtt ttgttagacc atgatgattg 420  
 gatgtggaa 429

<210> 20362  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
 <400> 20362

tagcttgtat cagctgttac atgataccaa atggaaattg caagcactac aaaaaaagc 60  
 agaatgactt gccatgcaac ttgggacatt agcacaatga tagtcattaa ctagataagt 120  
 gctaacacta atccagctaa ttcggatggg atgtctgtgt ctacagcact ttgatccgta 180

tatggctata atcatcaaca caagaatggt tgaaatctta ttacagctga taataatcaa 240  
aagatagcac taatctatca cttaaagatc taacagtga actgacccta ctcgtaattc 300  
ggcttgaagg tgtggtgtca aaaaatgaaa catgtgccct taatacaatc cttcctagta 360  
tgaagagggt gccca 374

<210> 20363  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 20363

cgagttcaac tgtccaactc tcttcataa tattctcggt ttgaaataat gggcaaaata 60  
ttcactttgt ttcttaaaag tgccaaccga ggtatgggtca tgggttggtcc ttttggtcc 120  
tcatgacatc ctattagagt atacttactc cgtctagtat tgttactttg tgtattctgt 180  
tatttgttgt ttgtaagctg tcagtgagct gacatggagt tacagctaag ctgttactga 240  
gctgctcttt acttacagct ctaactatgt cagtaacaaa ttgggatagt taacacgccca 300  
gctctctata tatagagggtg acactatgct cttgaacttg tctttctctt tcttgaccag 360  
agagaaatca gagtctatca cactctatta ccgtatcaca cagcttggtt gcgat 415

<210> 20364  
<211> 365  
<212> DNA  
<213> Glycine max

<400> 20364

agctttatac ctatgcttct ccttcttctc cttgaaaagg gccaggagag acacaccaga 60  
aaccttcacg accttgaacc tgactccagg aatatcacc acggcatgac cttttcgtcc 120  
aatccagct atcatgactt cattctacaa ccatcaacca cataacatta ggataagcat 180  
atcagcacca acataacagc aaaataaagt aaatatgatt gatgaatcac ttacattctc 240  
ttcaatataa tttaagcaac cgtcatttgg cacaaatgca gcaatcttct tccatttttg 300  
atgagttgac cctggcacat tttcaatggc agagttgggc tgcttacctc ataccactgg 360  
catag 365

<210> 20365

<211> 437  
 <212> DNA  
 <213> Glycine max

<400> 20365

ggcatgcatg gattacttat tacttattag gtgaatgtat ttttatccat ccctttgac 60  
 cggctcagtt agaagtagat ttaacatgt ttgagttttg aaattagatt tgtattttta 120  
 agcaggttca aattatattt taggtcatta ttttgggtac atttttttta acaaatattt 180  
 caggtcattt taattcactt tagtatttaa ttgcactgta aaacaatttt tcacactggt 240  
 atccaataac cactttttta attatttttag ttaataaatt tataatacat gataataagt 300  
 cataattaga tgattgttta aaatttttct atattattaa tgtataacat ttttttcatt 360  
 tttatatgtt tcttttaata taagttttat caacgatagc gtatcttata ttaatcttga 420  
 tatacaatag caacaag 437

<210> 20366  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 20366

ttgcttgtaa ctaaataggt tttctgccaa tgtacacata ccttggtcct tgtatgacc 60  
 ttaacaaagt aatatggatt aaatctccgt aataatcttt cggatcaaata tacctaagat 120  
 tgtaatcatc ctaaaacca taggtccaaa tgccaataag atttgtatat ataggattga 180  
 gattctcaat ttaaaggctt attgttcatt catttattac ttatatttat ggctttgagc 240  
 cgaaacttta cttaagtatc agtatacctt ttgtaggtag ctcaccttc ggagcgagtg 300  
 tttcaatgag tactactacg gaatgatgca ctgaagttaa cgacatgtct aagagcaaag 360  
 catcaagtta tcttttaggca ttaacatt 388

<210> 20367  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<400> 20367

ctttcaaccg ttctttgtcg ttctgtcttc gttcttcgtc gttcttcggt cttcaaccgg 60

taagttcccg aaatcgaact ttcaaatta acttttattt tcatttcatt tactttccgt 120  
 accccctttc gacgtgcttt agtcatttac tttagtcatt ttctgccta atcaaaaaat 180  
 aaaataaatt tccaccgatc atttgatttg taatatccgt taatttctgt taaaatgaaa 240  
 tctgaccgtt cggtcatgcc gtaaccacgt tggaaccaa aaagaggtaa actaataata 300  
 taataataaa aaaatatctt ttagtaaaat aaagcaaaaa aaaacaatcg gacgtttctc 360  
 tttgagattt ctctttctta atcgaattga ctaataacta aagtgaaact aaggctaaca 420  
 tcaactcgca aagt 434

<210> 20368  
 <211> 469  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20368

agtganatga gactgagact gagacctcga gnnccannac cangggctct gtgaacctct 60  
 agagccgagc ctgacagcct gcttgctttt tgccatttcg ccagacaag caggggtggc 120  
 tccttcatta tccacagtcc aatcgaggaa tcttcagtgc ggcccaaag ggccatggtg 180  
 ccatatgcac ccctattgat tactaagtgc accatatctg ccaccatttt gctgcgatac 240  
 tttattcgca aagacactgg accttaccba ttattcaact atacctgcta tctttccaga 300  
 atgttacagt accgtgagga tgacataatc atatccctac ataatgtacg gaatgttaca 360  
 ttaccttctt aatagtgcc ccaagtcttg cttagatcat ccgcgagata ctgaacccaa 420  
 atgaatgtgc actacttatg tcagagatat cagcctgtcc acaatgacc 469

<210> 20369  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
 <400> 20369

gcctcataga ggtccaggaa tgacaaggcg gttgtagtta tctgttctct cccggagcac 60  
 gacagtcacc gcttgaggat cgtgtacacc acagcgcttc gaagccatca agggatggc 120  
 gattctccgg gagcgacgca gtccacgctt cagggacaga cgacgtatac tagacttttc 180  
 catgagcgag atacgggcgc caagcgggtg gcaccactgg ttactcctat ggccaagtat 240

gatccaaaac tagtccttga attttatgcc aatgcttggc ctacatagga gggcgtgcgt 300  
gacatgagat actgggttat gggctatcgg attccattcg atgccgacgc tatcaaccag 360  
ttcctgggat atccgaaggt gatggaag 388

<210> 20370  
<211> 295  
<212> DNA  
<213> Glycine max

<400> 20370

ggggaaatga tgaggattct tttgataggc caaggtacaa aaaagtctaa ggttgtgttt 60  
caatggggtc ttttatcgtg ggaacccaat gttgatatct ggagcaaac aaatttgggt 120  
gtcaaggtgt ctgtcttcgt ccaaactcct atactactcc attatgaacg catgacaatg 180  
atgatttgac aaccacatgc aaaattagtc atggctacag ccaggtgggc actcaagcat 240  
cccatatatg gcattgtgat actacggctg tgaatctaca catacagacc ctttg 295

<210> 20371  
<211> 431  
<212> DNA  
<213> Glycine max

<400> 20371

ctttctgtgt ggagtgatga actctgtcgc gcattatggc ttgatcattg gctgacatat 60  
tctcaattag ctcagttgcc tctagagggg tcttcagctt tatttttccc cttgctgaag 120  
catcttgatg gaagcttgct tctggggcct ctatggaggc tggatctttg agcttcaatg 180  
aggtccttta atggtgattt tccaccatgg agatgcagtg gaagaaaaat gacaagaggt 240  
gagaggaggc gccatccact agggaataag ccatggaaga aggagcttca ccaccaagat 300  
gagccttgga taagaagctt ggagaggatg tctcaatgga cgaaaagaac gaatgagaga 360  
aagagaaagg gggggagcac gacattgaag gaagacaaag ggagagaagt cgaactttga 420  
gttgtgtctc a 431

<210> 20372  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 20372

ttgcgtgtta gcttgttctt catgccccag tgatgccaca ttgcgatttt atgcatggca 60  
tggatgcctg ggtactataa ctttcatgac ttatgaaggt gcgacaccta tctgacttag 120  
agagagatgc acatgcgctg cttatttctt acactcattt tcttattgcg aggctaatat 180  
ccaatcacca tccattggac agattgatgc atactcttta actggagttg atgatggctt 240  
gtgttatgct tttatgatca actaacctga tttgcttctt catatacact agtgtgctct 300  
tggagacgat gccgtatata gactgatcat catgctcctt tatgctgatt accttgaaaa 360  
gttcatcatt tctca 375

<210> 20373

<211> 413

<212> DNA

<213> Glycine max

<400> 20373

ctggaaaccg gagtggcat gacatcgact atggaactta ttctcagtat ggtggtataa 60  
ccatgggcaa atcaactctg tatatcgctc tcattagtct tcatatcgat aggagaaatt 120  
ccacaagggt atcataacga ttgaatcgtt catttaaata ataaattaac acagcagaca 180  
tgataaaact tacctgtgtg taagtaataa aatatagtga ttaaaactat atcttacact 240  
gtcactataa tgatatcaaa tatcaagaga cttaaactt gcatatttta tgggaacaaa 300  
aataatggta ttgtcctact ctgatttgaa attgacttgg tgaacttcta aaaccatgta 360  
tgagttggag gtactataat acatgaaatc cacttagacg ctaccaacca ttt 413

<210> 20374

<211> 465

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20374

cgtgggcttg agcttgactg acgccatcga aatcagggca atggatcttg gacccggaga 60  
tgctctcagg cgacctgttt gctgtcatcc tttgagggcg acgtagtatt aagatatgta 120  
agtgatacca tggctcttac atcgtgtaga gtatcctgaa ggaaccgttt tcatggatgt 180



aatctctatc ctgcacaggg gagtgtctaa ttataccatc catatgtatc gtagacttcg 240  
 ataagaagca cctgcgtgta ctactataga gagaacttat gcacaatgct tactattcat 300  
 ctaaagtatg ggaggcgta cactagatgt aactttgatt aatgacagtc ttgtagactc 360  
 ttgtactagc tcaacacctt tgacttttcg tacatgataa cagctccca cctgctctat 420  
 tcttcacac taactctact acattgagcc tccttgactg agtcn 465

<210> 20375  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20375

ntgaccaaat cccagcaaca gttgtttcct tatagacttg tctcaacacc ttgtcttcga 60  
 aactgagaat aattgcactg tgtgccttct gcagtagtgc tttcttatcc ccatcaccca 120  
 tcatcttttc gagtttggt tttccatcaa gtgcttctac caagccatct tcaatcgcca 180  
 tagtccaaaa ttattttgcc ctgtgaactt ttcaacctca cacttggccg agcccatttc 240  
 ttgaatcgaa ctcaaatcg ctccatgctc accgcaccaa tttgttggtc caagatcaga 300  
 ttttaattca caaagaatg agtttcttgt atgaacaaga ataagctaaa tgcaggaaaa 360  
 aagatgaaca gaaaaactac actgtgctca tagcaatcac tttcatatc tctgcaaaaa 420  
 a 421

<210> 20376  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
 <400> 20376

agcttattcc gaggacagtt tattatcatg cacagcctgc aagagttggc tcataacagg 60  
 ccaatcatac ctatagagca tttcttgag caagtagcct ggcctgaagc tcaacttcca 120  
 ttggtgagac ccaacgaggc tgcccctcct gagccacac ctacacaggt tgatccagag 180  
 ccagcagacc cataatctcc agtgatgaat ccaccttctt ctctgagct tgaagtgggt 240  
 ccccatctc cacctctgat tatcatctcc gatttcccat ctagagaaac tgctgctccc 300  
 cctgattcac cagctggaga agtagctgat cccctgatt tcctagttgg aggagctgct 360

gatctttctg attcctcatc caaagaagtt

390

<210> 20377

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20377

tctggtggga catcttgatg caatcctccc taggaaggga ccaatcacta gaaccatgag 60  
caagaggctc caagaagatt gggctagagc tgctgaagaa ggcctaggg ttctcatgaa 120  
ccttagggta gatttctgag cccatgggcc aaggttgggt ccaattatct ttgtacatat 180  
tagactagga tgtcattata tttggtcctt gtatataggg ctccatattg taggtagggt 240  
accctagaaa tataggattt ttcagccctt gtattttttg ggcacctaga ctagttttta 300  
tattaggggt agtnttgtaa tttcacatgc actaagtgga tatttgatgt gtgtgggttg 360  
aaataaattt aattgaattg gtagaagccc aatccaatta aatnttagag ggggaggtga 420  
gcatttgctt actacacccc attg 444

<210> 20378

<211> 421

<212> DNA

<213> Glycine max

<400> 20378

ctcggaccgg ggatccttaa gcacctgcag ctgcagcttt tggttctcac ccaccatctt 60  
ttcatagtag agtaccgata atgtgtctac catcacgatt atcgtctccc ttccattat 120  
tggggggtacc acctgtgccg ccagatecct ccaccttttg ggcgtgttct ttgaatgatc 180  
cgccccctt tttgcacatg ttctgtagat gcatoctata cggaaccata tcaaaattgt 240  
actgatactg cctaacaaag gcaaccatta tgtccttcca agaattggact cggaagggt 300  
ccaagttagt gtaccaggta acagctgccc cagtaagact ttcttggaag gaatgtatca 360  
gcaattcttc atcttttgcg tgttccccca tcttctgacg atacatcttt agatggttct 420  
t 421

<210> 20379

<211> 445  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20379

tataacatga ttntgtgtn cacatcccct ggagcatatt ttgacttatc attcaacaaa 60  
 gacaagggac caccaactta cagaattcaa ggtcaatctt gccatctaata agggagttta 120  
 ttaccaatgc caggaaaacc tcctaaatctt tctcacttgt atatctatgg tacagagaat 180  
 aaaatccaaa atagaattgg aggcttaagg taaactataa ttcttataac agatactaaa 240  
 gtcataataa taaattgatt gttcttaggt tatattaact tacaagttta ataatgcaga 300  
 tttgggaacc aacttgatcc aaagattggt gccaaagtaa aagatatggt ttaccatcat 360  
 aatgtctttg ctaaactctt cggaatggca aaggaaatat ttgagaagat aaaatcacat 420  
 gatctgaaat tgcaatagat atctc 445

<210> 20380  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
 <400> 20380

agctttttct tcttatctca tggaggtgag cttagctatt agagaggtat gtgtagctaa 60  
 gctctagctt ctttaggaat cttctgaagg aagcttctca aggaggtaag cttagttatg 120  
 agaggggtgt gtttagctaa gctctagctt ctcaaggaag ttttctcaaa gaagcttctc 180  
 aaggaagttt tctcacgaaa gcttctccag gaagctacct agtctataaa tagaagcatg 240  
 tgtaacactt gttgtaactt tgatgaatga gagtcttgag agacacaact caaagttcaa 300  
 ctctctccc ttttcttcc ttcaatttcg tgcctcccc tctctctatc tccccctctt 360  
 tcttttctc cattgaagca tctctccaa ggc 393

<210> 20381  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
 <400> 20381

gcttcttoga agggcatggt tatttccagt ttgtgaaaa tatctaagat tctcgctta 60

tgacgcttct tctccttctt ggaaggtacc acgggatatg gtacttccga accttcattc 120  
 acagcttttt ctcttttctt ctctctagct tattcacttc tactcctctc ttcattctta 180  
 tttttttcat atttttcatt ttcttttctt ttttcttggt catttaattc ttttttcttc 240  
 actattatct gtttttcttt ttcttgattg ctttcacctc tcacatcctc tttcttttca 300  
 tcagtacatt tcttttcagc agctttcttc ttggatacaa cactatactc atcctacgcc 360  
 tccataaacc tcttattcct tgtcatcaca gctttgcatt cctccttggg attcttttct 420  
 atattcacca caaaactatt ggat 444

<210> 20382  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 20382  
 agctttattg ttttatatct ctttgatgca acatatataa tacttttctt ttttttatga 60  
 atgttaaaca attattatct tttatgctgc tagtgatttt ggagcacaaa ttgtgcccc 120  
 aaaaagaatt ttgaagatgc ttccaaaact ctttgatcat caagatcaaa atgttcgtgc 180  
 atcctctaaa gggttgactc ttgaactttg ccgttggtgatt ggtaaagata gtgtaaaatc 240  
 aattgtgttt gagacaatga gagacacaat ggtaagctaa actagttgtc tatttttggt 300  
 gttgatttga tttgttatgt tctcctccat atccaaatct tagagtacct ttcttcccat 360  
 ttctgtatag aaaagagcta aa 382

<210> 20383  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20383

ggctcagaga aggagtccac ggaggaaatg cttaccacct tatatgtctg gaaagcggnt 60  
 tctaatact cctctgogga ctctacataa ggcatagagg atggacaact caccaagatg 120  
 tcttctctgc ctgacacgat gaccagatgc ccttccacta cgaatttcaa cttttgggtg 180  
 agtgtagagg gaacaactcc cactgagtgg atccacggac gtcccaacag acagttgtag 240



<210> 20386  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 20386

tttgctttta tcttggcaca acaccatggt gaacaaatga tcattcatca ctaatacaaa 60  
 ataaaaagaa aaaataatc taacggcatg cttagagtta gaagtacgaa ttttaccxaa 120  
 ttgttttttt cacacaagtt gatgatttca ccaaagcaac ggaaaataac caaaaacata 180  
 aatggatttg tttcgaatgc acatataatt tacactagca ttcaaaacaa ctagttcaaa 240  
 agtcattttg acagagaaaa gaaaataaaa ttactactaac actgcatcaa aattaaacca 300  
 taaataaagg cttaactact gtgtagtccc tggatctagg gaccctatct tttttaatcc 360  
 ctaaa 365

<210> 20387  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20387

tcacaaaagt ttatatggct tgaaacaagc accgttgctg tgatacaaaa tgnncaatga 60  
 gtttatgagc aactcaggat tcaaaagatg tgacatggac cattgctgct atgttaagaa 120  
 atatactaat agttatgtta tcattgtcgt gtatgttgat gacatgttga ttgcaggatc 180  
 tagtatgaca gatattaaca agttgaagta gcagtgggca gaaaactttg aaatgaagga 240  
 tcttgggtcca gctaaacaaa tccttggtat gagaattctt agaaacagat cagaatgaat 300  
 cttaaagcta tctcaagaga aatatataca canattgctt gacaggttct accttgagga 360  
 ttctaagacc aggaataccc ctttgggatc tcatttgaag ttttcaaaga agcaatcttt 420  
 gcagacagat gaagaaa 437

<210> 20388  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 20388

ttagcttttt tattagacct cgatcgggctg tccttactgg ccgacgccga ctgtcatttt 60  
 tttcgatcaa tatcgggtgaa taatattttt ttgcccgaag tgggctaata ttttcttggc 120  
 cgaataaatc ggaacatgcc agtttcgggc aaaacgaaac atcgggttgag ctacacacgaa 180  
 aaaacctagc cgacctacat tgtaagtttt ttatgcaaca ccgaaacaag aaaacttccc 240  
 ctgccgtaag aaaaaacatt atcggccagc gagcggtttt tttttaaaaa aaaattgctc 300  
 aatgtcggct gaaaaatata agtcggggcc atttcacgac cgatgtcggc tattgagttt 360  
 tctattcaat cctgaatga aatttgaat 389

<210> 20389  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 20389

ttcactcgga tgtccgatgc acgcgcatca tatatcgagt tgtctcgaaa ttgaacaacg 60  
 gaagctctcg agaaattgaa atgatcataa cttttcactc agatgtccga ttcagacgca 120  
 taatatatcg agacgctcga aattgaacta cggaagctct cgagaaattt aaatgattat 180  
 gaattctcac tcggatgtcc aattgaggaa catcagatat cgagacgctc gaaattgaac 240  
 aacggaacct ctcatgaaat tcagatgggc ataacttttc acacggagat ccgattcaag 300  
 cacatcacat atggagacgt tcgatattga accacggaag atctcgagaa attcaaattg 360  
 tcataacttt tcaactcgga gtccgattca cgcgcatgat atatcgagac gctcaaaatt 420  
 gtacaacgga agctct 436

<210> 20390  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 20390

tcacctatgt acaatgtaga cactgataat atgggttaaataaat gttttttaat 60  
 ttattatttt tgatcgattt aatcttttat tattttcaat ctaattcgat cctctaatta 120  
 aaaaaaaaaag atattctcat cctccatgtt gataatttgc ccataaagaa taattagaag 180  
 acttcgaact aaaataataa atgtgagggg gaaaaataat gtaacctttg atttcgtgtg 240

actggggtaa aaaataaaga ctatataaac taccgctgc atcaattccc tccgctctga 300  
 taataaagcc actcgccgct ctctgtaccc tcctctctct atcttagcgt atgtcttatt 360  
 acaacttatc 370

<210> 20391  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 20391

ttaatgttgt gactaacaag gtgcataaca gagaatggga tttggtaaag tttacacaca 60  
 acatatatgt atcttctatt ttaatttcag aaataacctt tgattgtgga gcagttatac 120  
 ttggctaatac aagagaaatt ccacaaagt gctgacaaaa attactggaa agctattggg 180  
 gagatcattc ctcgagaggt tcccaacatt gagaagaaaa gaagcaaagt ggatcacgag 240  
 aataagccat caatcacagt cgtccaaggc ccatagcctg gctaaccac agatctttct 300  
 aggatgaggc agatattggt gaagctgaaa catacaccac cagctcacat gattccccct 360  
 cctactgcac ctgctaaaga cgccatagat gggaacgatg gaaaagacgg aatagaaaca 420  
 gcactctaaag ccaatgga 438

<210> 20392  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 20392

tagcttgcag caaattcaaa cagcaataac tattttctcg gattttggat tgagtctcgt 60  
 catatatcga gacgctcgaa attaaaaatg gtagaccga tcaaattcaa acgacaatga 120  
 ctatttacac tgatgtctga ttgagtccta tcatatattg agatgcgcaa aattaaaaat 180  
 ggaagctccc tgcattattca tacgacaata actttttata cttggatctg cgattgagta 240  
 ccttaatatata tcgagaggct cgaaatttgt aatcgaaagc tccgatcaaa ttcaaacaac 300  
 gataagtatt gactcggatg tgcgattg 328

<210> 20393  
 <211> 431



<212> DNA  
 <213> Glycine max  
 <400> 20393

tatgaagaag tgggtgttgat acattgtgtg atcaaacgga tatggatttg actttcacia 60  
 gcaccactac tagaaaatgt agatttaaca ttgtcaagtt aacattgggt tttgataaaa 120  
 ccgatgttaa cataaacact atgacataat tgtaataat gtgtatactt taacatcggt 180  
 tttgttttgg aaaaccaatg ttaacgtatg ataagttaac atcagtttct tccagaaaac 240  
 caatgttaac gttaacatca tctgggtaac atcacttttc tttttattgg aaaccaatgt 300  
 tgaacctaca tttagaaata ttagaacgca agccttattt tccttgtttt ctcttcttct 360  
 ccgtctaagc tttgtctttg tgagtctatc cctctctaca accttatcgc cattgtgaca 420  
 cctcgccact a 431

<210> 20394  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20394

agcttttagt tgcttggaca acaacttatt ttgggccaac aaggcatctt gagatgaaag 60  
 ctctaataaa ctcttttttg taggaatatg aactctatca tgcaaaattg catggtcact 120  
 ggcaaccata ttttcaatta agtccatggc ttcttcaagt gtcttcacgg ccataaccca 180  
 ttaatgaaga tgttcaacta tataggctct gaaaaagcta cagtgggagt tttctgtagc 240  
 aagctataga atctttctta tgctcactc aaagattcat cgagaaactg atggaatgaa 300  
 gaaactacaa cttttccctc tacaatttta gactctggga gatatttntc tagacacttc 360  
 tcaacaactt catact 376

<210> 20395  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20395

taagggaaga agatgaacca attcaaaatc agttctgcat atttctagtt ggttacaact 60

ttgggctcgt tgaggtagta ttcaatttca taaaatgttg tatctagagc attttgggtg 120  
 ggtcacacgt ttgttgactc gctgggctaa atgttctgtc tgggatgtga ttttggctgg 180  
 ctaggcttta atctagttgt ttatatgatg attatttaaa ttttccttaa actcttcctt 240  
 tctttttttt tatgattcaa atgactttaa aatatttttg caaatatatt atacttattt 300  
 gtatgatgat tatgtcattc ttgacctgtt tatattatgt taatgtgatt gcattgttga 360  
 agtcatgata taggtatatg ttntacttat tgtagtgaga aataccctta acgttctatt 420  
 gatg 424

<210> 20396  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 20396  
 agcttgcaaa ttcgtgttcc agccagactt atttcatgtt ccatatcaac aaggcaggat 60  
 gactcttaaa agttaaaca gaactataca cacgcattgg cctagtttca aatcaaactt 120  
 ctctggcaca atagaaaaaa gttaagatgc ataaattaat ttttaattac aagtttgatt 180  
 tattttaact tctaattttc tttttttttt tctggtaagt gtttattgag aactttatag 240  
 taacttgact gcagtcatag atatacaaag agaccctatc catataatac tcatttcaat 300  
 agcattcaaa ttttgacata aggaaattca aaagggatg aaaactcact aagtgttaaa 360  
 gaagaaaatg cttcctccat ccttagtagc a 391

<210> 20397  
 <211> 275  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20397

ctgtaactca gtgttaagta ttgtttcttt caatgtatga tttgtcacac acatgggttg 60  
 canacgccac aaccancatc taaactacaa taggttgatt caacattgtt aacttaacat 120  
 tgcattctga taaccacca gtaaacatta aactatgac gtaaattgta caaatgtgca 180  
 tactttaaca tcttctttgt ttgggacaac caatgctaac gcatgataag ttaacatcag 240

tttttacaga aacccaatgt tagcgccaac atcat

275

<210> 20398  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 20398

agcttatgct tttctttata ttgtcacaca gatttcatat tcttaatggc tgctgttttt 60  
tcagacactt cctatttttc ttgatggcct tgttactgca tggggcgcta tctaatttc 120  
tgtgacatta attcttttgt ttggtgaggt gagaaagttc tgccttata tgattttaag 180  
tataatacat tcatgtcaca gattaagtgc ttgtgttgat tgtttagagg ttggaacctg 240  
gaacaaaaat ctggtggcac agcacccgtt ttgtttggtt cacgtttttt ccatttgtga 300  
aagacatttt ttgttaatta gaatcaattc cagttgaagt gggaaccact agcttctcat 360  
tcctctaatag ttatgtttgg caataaaaa 389

<210> 20399  
<211> 444  
<212> DNA  
<213> Glycine max

<400> 20399

tccccatctt cccagcacca accaccaaca ctccagaatc tgcaaatgag gaatccggtg 60  
gcttcatcag tgcaagctcc acagcagccg agcttacaga aactgatcca gatgaaatgt 120  
tagtctcggt tctaaccgc ttcccaaccg atatcgctg cttgaacaaa ccactgattt 180  
tcttatcaaa accaggcact cctgtccag ctttcacaac ctgcttcacc tgagcaagaa 240  
tttgaccttc cccaagaaca agtgagtcaa gccctgacgc cacttcaa atagtgctgcg 300  
cggcgtagcg gttatacagc aaaacttggg gctcccgag ctcaggtatt gaaatccact 360  
cacctaaaca aaaaacacaa ccatgagttt tcctttccaa aaaaaacaa gaacttagca 420  
tgggtaaatac acctatttcg tcca 444

<210> 20400  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 20400

agctttatag cctttgcctt ttctatttga gatgagaggt ggaataccat caacgagctt 60  
ccaatatatg acttaatgtg gttggattct atacataaca gaagatctca ttcgagttga 120  
ccctgctcat agctgagatc catgtctcat caagattgag ctttctgcga tagatgatcc 180  
cactctttac tgcataataa gaaccttcat ctctttgaga cacacttcaa aacagaatga 240  
tattctctag gaactcttgc taggcacatt agataaagat catctggaag gccacagata 300  
actaggaat tagtggtctt tatctcattg acactatctg atgatacttt tgcattgatc 360  
aaatgctcca ttgtataatt cagatgacc 389

<210> 20401

<211> 416

<212> DNA

<213> Glycine max

<400> 20401

tgtcaaatgg aaggatagga taccctatgc tttctggaat ttcaacccaa cagtgtctat 60  
tattaggaga gaactctgca agtgcaacac cacagaaaaa catgattgga atgcaagaat 120  
atatgacata gtaaataat aatctaaaaa ttacttttg ttataggtta atgcattaat 180  
tatctcaaga ttaaattaac acattttttc tctctctctt ttcaacaatg gttgagagag 240  
agagcaagta attttgagaa ctcaaaactt gaaaatgaat gtacctttag gtaaagtgtt 300  
gaagcatatt atatgattgt gattttttta aataattatt atagaagggg ttagtttact 360  
tttttgaatc tgtcacatat aaactttttt agattgtact tactaaattt tgaaac 416

<210> 20402

<211> 392

<212> DNA

<213> Glycine max

<400> 20402

agcttgacag gttcatgtgc aggtgcaggt gctgctgcta gtggaggcac ttcaatttgc 60  
ttgccagacc tcatggtgat ggcaactcaca tttttcgaat ttttcacagt ctgtgaaggc 120  
aatttgcag aatttttagga ctgagcttgg ttcaactgag tagccatctg cccatttga 180  
tttatcagac tctgaatgga ggctcttgct tcttgctaaa attgcatatt ctggatgggt 240

atttgctca ctagctcttc taaggaaggt tgcgaagggg ccttagttgc ttgttgctt 300  
 tgttggtgtt gttgtgtgtg ctgcattgga ggaggaacat atggcttgct tggaccaaca 360  
 ccattctgga aagcatggca tgctgttggt gt 392

<210> 20403  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20403

tctnccccaa ttntctataa atagggggag aagtgaagtg aaaaatgatt cagcccccta 60  
 ggcacttctc tctctttcga atttgcttgg aaaaattgtt tccgtgaaga aaatccaagc 120  
 cgaggtgctt ccgaaacgtt tccgtaacgt tccgtgagg aatttcgtga aggtttcgac 180  
 cgttcttcga cgttcttcat tcgttcttca tcgttcttcg atcttcaacg ggtaagtacc 240  
 tcgaaccaag cttttcgatt cattctatgt acctgtggtg gtctacattg tgtttcgtgt 300  
 atttttattc tcgtttcatt tactttctat accccctttt gacgtgctta agccatttta 360  
 ttaagtcat ttctcgctta aactaaaaat aaaataaatt tccaccgatc gtttgaattg 420  
 tattatccgt taac 434

<210> 20404  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <400> 20404

agcttcttct tatttagctt caaccatgta ttttggacat agtcaacaaa tattttataa 60  
 catgtccacc aatttgtaaa tcttttcaat aattcattat acgattcctt atccagagat 120  
 tgcaacaaca gttccaagc atccatgaca tcttgccact cttcaacctt attcatatgg 180  
 attttgcat ttgtgttgac attctttgta atatggaata gacataacaa gttggttgaa 240  
 gaagtaaaaa tagtctccaa tgcattcatg aaagtaagat ccctaacatt gacaataacc 300  
 tgagacaaca catcatcttt cacagacaat cctttcacct tacttaaagc ccattaaaaa 360  
 attatccgtt gtctcataac ttaaataagc aaag 394

<210> 20405  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<400> 20405

tgcttggtga gcttctatgg aggtggatc tttgagcttc aatggggtcc tttaatggtg 60  
 attctccacc atggagatgc agcggaagac aaaggaaaag aggtgagagg aggcgccatc 120  
 cattaaggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180  
 gcttggaagg atgcttcaat ggaggaaaat aaagaggag agaaagagag agggggggagc 240  
 acgaaattga aggaataaaa gagggagaga agtggaactt tgaattatgt ctcaacaagac 300  
 tctcattcat caaagttaca acaagtgtta cacatgcttc tatttataga ctaggtagct 360  
 tccttgagaa gctttcttga gaaaacttcc ttgagaagct tctttgagaa aacttccttg 420  
 agaagctaga gcttagctac aca 443

<210> 20406  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 20406

ttgcttttat aggtgaaatc aggtgcagcc atttccctta tagtcctctc acgaggtgga 60  
 ggttggtcca tgttctcaga atgcgcaaaa tcagaatgct cagaattata atgctcaaga 120  
 tcaggatggt caaaatcacc aataacagaa tgcacagatt caccagttat ggaatgctca 180  
 gaatgatcaa aaaggtataa aatgatgcct aaataatcta tgtaatgtcc tatctatctc 240  
 aggatcaaag ggttgtaagt cagatggatt gcctctagtc atacactaca ttcagcatgc 300  
 acacaactag ttgccttgct atgtaaataa aggtgtaggt ttgaactaca gctaccctca 360  
 aatgatatct aatgacttg aaatt 385

<210> 20407  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20407

ngaaggacat gcacaaagtg tgactatatg atgtggtaat atggtgtagc aagcaaagtc 60  
 tcacctcccc ctctaaaatt taattggatt gagcttctcc caattcaatt aaatttattt 120  
 tccaacacac acatcaaata ttaacttaat gcatatgaaa ttacaaaact acccctaatac 180  
 taaaaactag tctaggtgcc ccaaaatata agggctgaaa aatcatacat ttgtagggtta 240  
 ccctacctac gttatggagc cctaaataaa agggccaaaa ataataaaac cttaatactaa 300  
 tatgtactaa aataagtggg ctacactta gcccatgggc ctaaaatcta tctaagggtt 360  
 catgagaacc ctanggtctt ctcttgcatc tctagcccaa tctacttga gtcttctatc 420  
 caatgccctt gc 432

<210> 20408  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 20408

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 actgaaacat aaaaactaaa atttaaata ctgaacataa atcataaaat aacttaaata 120  
 aactaaaatg ttcaaaatgc acaaatttaa atgtcctgct cctgtgattg ctcttgtgca 180  
 tgctcattga gatccaacaa ttgagcagct ggtgaattct gagggatatg ttgctctagc 240  
 tcagatgctg gtgaagatgg catggattca tcaggtatgg gtactgggga tggctttcga 300  
 atttggctctg tggaagtctc atccttctga gccatctgta cacctgaatc aaaataaaag 360  
 ggctcaagag gagtgaagctc a 381

<210> 20409  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20409

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 tcatttcttt ctccgtcttt gagggaaacca cttgggctgc cagatctctc cacctttggg 120  
 tgtattcttt gaaagattca tgcccccttt ttgcacatgt tctatagttg catcctatcc 180  
 ggagccatat cagaattgta ctaatactgc ctaacgaagg caaccattag gtcctttcaa 240

gaatggactc gggaagggtc caagttagtg taccaggtaa caactacgct agtaagactt 300  
 ttttggaga aatgtatcag tagttcctca tcttttgcgt atgcccccat cttctgacaa 360  
 tacatcttta gatggttctt gcggaagta gtcccccttt actctctggt aatcgattac 420  
 catattgttg tcatcgat 438

<210> 20410  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 20410

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 ctagctatctt tgaattcttt agttcctgaa tgtacaacct tcaaattggt gcgcgttccc 120  
 ctctatgaga atgaggagga tcttcatagg acttcatcca gctgatgttt gtcgtcagtt 180  
 tcatcatcca ccaccctttt cttccgtgcc ttctcacggt cattgttgat aaaccatata 240  
 ttatgccttc ttcccttcat gtcttggtat atcacaactt tagctgaatc tcccatcttc 300  
 aacatagttg aatctcctgt cttattctcc aatgacacac tttgatggcc tgtatctctt 360  
 ttcttcgtat gttctactgc ttcagc 386

<210> 20411  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 20411

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 gaagagaagt tcaagtccat agccatcaaa gtctgaaaag agtatgatga actaaggagc 120  
 gtcaatatgg ccaccgctga tgccttgga cagagaaacca agaaggccca aaaggaagaa 180  
 cagacacaaa gcaaagtttt gaggggcttt atagggcagc aatagtgagc tcaagctccg 240  
 aagaggtgaa aggaatcatc acgggtcaaa ggcatgatct tgaaggacga gctaaagggt 300  
 tgccttaagt cgaaaagaaa tttgtcccaa cagttaagcg agactgaagg gaatatgtgg 360  
 gccatcatcg ataagtgcaa agagaagcta aatctagcgg cgactcacga gcataggcta 420  
 gaggatgagt acgccaag 438



<210> 20412  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 20412

cgctttcaaa acatacatct ggttcagcta ctggtgcaat tgcttgata tttgtcatac 60  
 tacgtaacca tatggatgca cggacatttg gagcgggtga acccaataga ggcaactgcag 120  
 cactgcttga ggacacaatg gatttgattg tacgcattga tttgcttatt tatatcaaac 180  
 caacggcaca tgggacatgt ctcatgaaat taagtggctc aaaggctaag gaagcttcac 240  
 aaaaaagggt ggagacctag aagatcaata tgattatgta atggggatgc tgaagaatat 300  
 ggccttgtaa gatgctctac ttcattcgta tcttcttgtt actcaciaaac gtgtgtgcta 360  
 catg 364

<210> 20413  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20413

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 ggacggagaa acatctcaaa cttacacctg tgatgactca gcactcttgg gcaggtgaac 120  
 gatagtcttg tcatgcacgc agaaaatgag aagttangcc catcattact atgcaaaagc 180  
 gtggatcggt ggtggttgaa ctctaacttg agcaagtcac cagcagggag atccgctttg 240  
 ctattcaatg ccacactaca tgtgagagta tcatcataga gctagttatg agccgctgcg 300  
 acaccctcta tatcttgc 318

<210> 20414  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20414

tggagccnct gannctgagc ttgatgcac gatatctggg cgaatcagct cggacccggg 60

```
<223>      unsure at all n locations
<400>      20415
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<400> 20416

atgctcatct tcataaatgg gttgagcacc ctatttgatg gaagcttgct tgtggagctt 240  
 ctatggagggc tggatctttg agctacaatg agatccttta atggcgattt tccaccatgg 300  
 agatgcagcg gaagacaaat gacaagaggt aaaaggcggg gccatccact aaggaatata 360  
 ccatggaag 369

<210> 20417  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20417

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 aacaattatg acctctccag caacagatac aacctggat ggaggaatca ccctatcctc 120  
 agatgggtcca gcccttagca acaacaacag cagcctgctc cttccttcca aaatgctgct 180  
 ggcccaagca gaccatacat tcttccacta atccaacaac agcaacaacc ccagaaacag 240  
 ccaacagttg agggccctcc acaaccttcc cttgaagaac ttgtgaggca aatgactatg 300  
 cagaacatgc agtttcagca agagaccaga gcctccattc agagcttaac caatcagata 360  
 ggaccattgg ctacccaatt gaatcaacaa caatacctga attctgacaa gctgccttct 420  
 caagctgtcc aa 432

<210> 20418  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
 <400> 20418

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 ttcttcccc atacttgccc tttttcttag gcacttagct ttcatattg aaattatagc 120  
 atacacactt attaatgta tttatactta caactttttt ttttaacaca gagaaccgaa 180  
 acagtgtgta tatactatatt tctttgacca tttcaatcct taccagtgct ccccccaaa 240  
 tgtggaacaa atttaccttg ataataactc ctocaaattt gccttgaacc atcttctgtg 300  
 gatgatgctc tctacaacc tataataagg tagcagaaga tgcaattgaa tacgctcgag 360  
 gttcaatcaa tcaatcagtt 380

<210> 20419  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20419

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 tgccattcct tggattatag ggttgaacca agctcatgct ttacaaaaa ggttcatcaa 120  
 gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaatcgagtc 180  
 acatcaatgc ttcgtctact tccaaacata tttaggatta ttgatgtcct tgttacttcc 240  
 agtttcacct tgacaaagat gtcattggacc atgttgaaaa tctaaattga ttcaacccca 300  
 tatcctgcgt aaatatcgc aataacttga ctgtacatca ttcgcatgca tccatgcttt 360  
 tcattgggtg cattgctcat tgcattcttt ccttgaaaaa taaaatanaa taaaatacaa 420  
 tgaacttata a 431

<210> 20420  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 20420

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 tccagaagca acagccttct ggaggaatct tctggagggc ccaagtgggc ttggttgcta 120  
 tttgcatccc ctttttact aagtacaccc cctgccttt tttggtgatt ctttttctgt 180  
 aaagttacgg aaacttacga atttcgtaat gatacttggt ttctttccgt aatggtacgg 240  
 aaccttgagg attacataat catccctttt ttgacttac ggaatgttac gggacctcac 300  
 taattgtgca acgatgcttc catttgattt ccggtgtgtc acggaacctt acggattgtg 360  
 catcaatatt ttcttttggt ttccggcatg t 391

<210> 20421  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 20421

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aatttttaaaa aaaaaaactc tagattctca agtcatagga atttacaaca acgatcacat 120  
tagagagggt gaataatata ttaataaaaa ataataactt ttgcaaata aaagttttat 180  
cacagggtta gaaatatata tgttttggag tcatctactc atcagtaaaa taagtttaat 240  
aaaacatagt ttgatcatcc aatatatcta tgaagtaata ttccaaaaa aggtttttta 300  
gaaaacactt ggtcagaaaa aaaggtaaca aagaaaacta agataatact taataaaatg 360  
gtttaataga gatataattag catttgattt gtactagttc acttaataaa aactaccttc 420  
aattcttctt tacacaacta 440

<210> 20422  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 20422  
agcttctaga ttagtgtact aaacaaccgc ggctccggcc aagctatctt ggaaaaagtg 60  
tattaatagt ttctcatccc tagagtgcgc gccatcttg cgacaatata tcttgagatg 120  
gttcttgga caagtcgtcc ctttatactt gtgaagtcc ggcacctga attttggggg 180  
gataacaaca tctgatacca agcaaagatc cggaatgga tattcaccaa agccttcaac 240  
agcctcaat ctctctcga ggagatcgag ttccatctt tcttcgatcg tcgggggtg 300  
tccttctgtg gacaagatta ttggtgtgc tgtgaagttg ggatgatgca aagtgttgcg 360  
tgccggcccc tcgacgagga tcggtgggta 390

<210> 20423  
<211> 444  
<212> DNA  
<213> Glycine max

<400> 20423  
tgtgatggtt atgttctttg gccatgtgat tgtgatacat ataacatttc aaagcctttt 60  
tcattttttg ggtcgtttta tctcatcagt gccctttcta ggaaaaggaa aaatcgtaaa 120  
aatgaaaatg agttggtgaa ggagatcaat accatcacia ttacacaata cctaacaatga 180

cccaacaagt atttctaaaa tctaagtgat acactgatac ttcttgtag cgtgtaagtg 240  
 tgtaactacg aagacattta gaaaacgtgt catcaagctg tgaaaatatg aggtgcgacc 300  
 cagtactggc tagcagcaaa agacgtttca ttatccctgc gagcaaagag aggcctcttg 360  
 cagctttttc cagcgcaatt gatgcttaat aaaatctgtt ttatcttttt tttttcttct 420  
 agaatataga taattatggt taaa . 444

<210> 20424  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20424

agcttgcatg atttacatct ccccttttct caagcaaatt cttcttgata tcatcaaaat 60  
 cttcatgatt tacaggtgtc ttgcgggcac gatccttgca aacaataaat gacatcaaaa 120  
 atcagttgag agaagggcat acttacctat gtcataatgg cgtgaccttg ctgggggggaa 180  
 cgggcacat gtaggactaa cagaggcccg taaccagagc tgggaaccct agggccctgt 240  
 tggacttctc tgggtccact aggtgtcttg tgggcgtgat ccctacaaat agtggatggc 300  
 atcagaaatc agttaagcca cgtgcatact tacctatgtc acgatgacat gaccttgctg 360  
 gggggacggg catcctgtan gactgacaga ggcccc 396

<210> 20425  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20425

tgaagganaa ctggatgcgt tggtaactt ggtaacctag ctggccttga atcagaaatc 60  
 tgtacctgtc gcaagggttt gtggtctgtg ctcctctgct gaccaccata tagaccttg 120  
 cctttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgctg caaatattta 180  
 caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc 240  
 cagcaacaga tacaacctg gatggaggaa tcacctaac ctcagatggt ccagccctca 300  
 gcaacaacaa cagcagcctg ctccttcctt ccaaaatgct gctggcccaa gcagaccata 360

cattcctcca ccaatccaac aacaacaaca accccagaaa caaccaacag ttgaggcccc 420  
 tccacaacct tccctcgaag aacttg 446

<210> 20426  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 20426

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 gaaggaactt tgactaaggt taacacgcta aaacttaaaa aactaaaaaa tgaaagacaa 120  
 aatgataaat ttactcttcc attttatctc caatatctaa ttaggtcatc attaatataa 180  
 ttcacaaaat tggcttttca ataatttaac tcacaaattt gatcccttat cttataaaat 240  
 cgagcaatga tggcttttca catcacaacg atgactcgga acatgtgacc gttgacatca 300  
 cctgttaacg gtcaacgtgt aattgtgatc tataaaatat ctaatagcgt acgattgtat 360  
 agaataaggg gaccaa 377

<210> 20427  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20427

tgctggcang nactgtgatg acgaaggaca ngatattgta accattatgc tcgaagaagt 60  
 accacaatgc ggtggcataa acgagcaccg ggaccgctcc acgccaattc attcacaaca 120  
 ccacatcaac aactaagcct ttgccgagaa cacgatgaaa ggatgagaaa ctaaggcgat 180  
 gccagattg tcagaagaat gaagaatgaa ggggtgataa tgatcaatga cagccatgtg 240  
 catgagagaa aaaaaaagag agccaaccag acatccgaaa agtccccata taaaacgatg 300  
 cataagggga tgacttatcc agttatataa gaacttaatc atcgatgata tccatggccg 360  
 tgagagacaa aaaagaatca ac 382

<210> 20428  
 <211> 384  
 <212> DNA

<213> Glycine max

<400> 20428

ttagcttgag tttaatgcat atttatataa agatataatt aaagtttatt agatttaaag 60  
acttgtttga aaaaaataa cttcgataat tttttgaata agttcttatt atataaaagc 120  
tcattataaa agtaattaaa attcaactag taacctatct gtgtttggat atacatatat 180  
gttgataaga attggatata tacgtgttga taagagctta cataatcttg aagtgtttgc 240  
atgcaatgtc aagtgaactt ataaaagggt atctcatttt aaaaattaaa aaaaaagtga 300  
accatgcata aaagtaaata agaaattaaa aactaactaa acatttaata tactaacatc 360  
atatgtatta caaaaaatat tcag 384

<210> 20429

<211> 429

<212> DNA

<213> Glycine max

<400> 20429

tataagaaca aaattgcctc aatcatttcc aaatatacat gtgaattagg aagcatcgac 60  
aagaatcaag ccaagactat tgtgcaagca atcaatgggg caaacacac caaatgatta 120  
tgatgatgga tgggtcaaat tctcaciaag gtaaactcat cactttcaaa ttgagctttc 180  
aaaactatca tgacatgtag aggagaatca aggatttcaa gtcacaagat atcaagaaat 240  
tttattttca aaacaattac ccatttcttg aacatatact ataattcaaa gaaaaacatg 300  
caaagtcgta catgcacaca aaattgacct aaaatattaa actaaaaatc cgacgaaact 360  
aacaattaa caaattaaca caactaaca attaacaaaa ccaacaaaac tagcaaaacc 420  
aaagaacac 429

<210> 20430

<211> 382

<212> DNA

<213> Glycine max

<400> 20430

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cccttacgca cttctctctc tttcgaattt gcttacaaaa attgtttcca tgaagaaaat 120



ccaagccgag ggcgttccat aacgtttccg tatgtgattt cgcgaatggt ttcgaccggt 180  
 cttcgacggt cttcattcgt ttttcacgt ttttcagtct tcaacgggta agtacctcac 240  
 accaagcttt ttaattcatt ctatgtaccc gtggttggt acatttggt tcatgtattt 300  
 ttattctcga tttcatttac tttttatacc cccttttgac gtgcttaagc catttattta 360  
 agtcatttct cgcttaatct aa 382

<210> 20431  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20431

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 caagtaccaa cttagataa caatttaatt agaattattt actgtcattc aattacaagt 180  
 tgctatgtgt agtaaattta tcattttttt attcaaattt atcaattttt atcataatta 240  
 ctataaaagt tatatttatg atgatttcta attgattgat attataaatt ttttaacact 300  
 taaatgtgtg tgcatataat gtattgaatt taaaaacata atttatttgc atatttaata 360  
 gttcacaaat taaaatacgt tntctatacg ttaaaaagat actatattaa atactagggtg 420  
 gtgctgagat cactg 435

<210> 20432  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 20432

agcttggtgga aataacttaca cgactgagaa aaagtgtttc tatgacggtt attttaagca 60  
 ttctacgacg atttttgacc gtcacgtat cgaacgttgt gaattgtccc ttcattttta 120  
 agacggttcc aaaaagaatc atcttagaaa agctatcatt ctatgacgat ttttaggcta 180  
 attatcatct tacaatggta tctttctaag atggttttca acaatgtgtt taaaaaaaaa 240  
 caaataaaaa gatgagaatt ctaagacggt ttttcacaa tcgtcttaaa aaatagactt 300  
 tctaagacaa ttttctaaaa aatcatctta gaatgtacac tttttaatat gatttttcaa 360

ataaccatct tagaatatct tttaa

385

<210> 20433  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 20433

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ctaggagagc attcacccat tccatgtcta cttaaagaac cactttttct ttgacctccc 120  
aacctttatt gacatgccac aaataacaga acatagaggt tttttttttt tggtagcat 180  
ttgctttcag ctcatatttc cttttttttt tacgatgata ggtattacaa aagaatgtag 240  
ttctgattct ctatgtatct gttactcata ttcttggaaca taatttaacc aaaacactcc 300  
cccaaatttg gaacaaatct gtcttgatcc ataataatgc tctcctatag cctaagatag 360  
ggtgcacaaa gatagcattt acatttagct taggggtcaa tgacacattc gttcacgttt 420  
agggtcaaaa 430

<210> 20434  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 20434

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ctggagggaat cttctggagg gcccaagtgg gcttggttgc tatttgcacc cccattttta 120  
ctaaatatac ccctgcctt tttttggtga ttcttttttc ataaagttac ggaaacttac 180  
gaacttcgta acgatacttg ttttctttcc gtaatgttac ggaaccttgc ggattacata 240  
atcatgcctt ttttgactta cggaatgtta cggaacctca ctaattgtgc aacgatgctt 300  
acttttgatt tccggtgtgt cacggaacct tacgaattgt gcatcaatat tttcttttga 360  
tttctggcac gtcacggaat atcacaaat 389

<210> 20435  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 20435

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 attcattgca ttcttctcta ttcatttgat gtctattctt ggtctgtgtc attggtgaag 120  
 caatttgatt tatggataaa aactttattt aggctgggga cattcatcaa agaaaattag 180  
 ccatgggtggc caggcagaga agtatgttca cgtgtcatag cctgnnggatt gggcattagt 240  
 tctcttcaaa gtattaataa tgcagctacg ttgaagctaa gttgaaattt ttttattctc 300  
 taaggatcaa ttgttagaaa ttaggagaag ataaactggg ggattatgat aaacatcaaa 360  
 catgaacttt taggttaaatt tgtcaagaat ataaaaaagt atgactgtag cataatcata 420  
 tcggtatcca tggatg 436

<210> 20436  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 20436

agcttattct ccttcaactg cacaaggctc ttaatatttg aagagtatcc ttgtggaacc 60  
 ttcacccgac gaagacactg acaaaaaactt atcttctcct tcttggacaa agtatggcag 120  
 gctggggggca agtaaatttt ctcccatca gaccttggat gcaactgtga tcgtataccc 180  
 atatcagcta gatcttgacg agtattcaag ccaccccttca tcttgccttg aatgttaagg 240  
 agcgtcccaa tcacactgtc acaaacattt ctccacatgc atgacatcaa tacaatgtct 300  
 aacgtcaaga tcacaccagt acggaagatc aaagataatt gacctcttct tccatatgca 360  
 actctgacta ttatccttct tttgggtc 388

<210> 20437  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20437

nttggtgaga aacaaagtgg caaacttata aaagtcttga taagtgacaa gggaaaagaa 60  
 gtgagttttg agaggcagtt gactgttggc tatacacctc aacaaaatgg tgtatctgaa 120

aggaacaatc aaaccgtgat ggagaaagga ataccaaaag aattatggcc tgaggctatt 180  
 aatacaaccg tgtacttggt gaataggtgc ccaacaaaag cagtatgaaa tatgacacca 240  
 tttgaagcat gaaatggaag aaagccttta gtgaaccaca taaaatTTTT tggaatgtgtt 300  
 ttgctacgct caagttccta aagaaaagat tacaaagctt gaagaagcaa gtgagagatg 360  
 catctttatt ggctatagtt ccgtgtcaaa gggctataga ctctacaact tgaagaccaa 420  
 gaaagtgatc attagccga 439

<210> 20438  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<400> 20438

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 attttgtttg actaacctct cagcgacctt gctatcttgg agaagctctt gatgaacctc 120  
 tcttccgacc gagcttacc tatgactcta ctgaggcgat gcacattgca tgggtggaggc 180  
 gactttacta tgatgctatc tctgtctcga ctatcttaat atcctgccgc taagagatat 240  
 ggcccgtgac tatgccttat tgttccatgt attgacactg ctctcaatgc tacaccttga 300  
 tg 302

<210> 20439  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 20439

tgccgcactc gcatacagga cctgggtgtgc tattagaagg gagatgggtg ccggctcgta 60  
 ctagatgtca catggactac ggtcctactg ccaccaccga ccttttcaag agatctctaa 120  
 ttagacctca ggataaacga gcgggcgaca tgtgctgcga tcgatccac tacactgccg 180  
 tcagactatg catgaatatc ttccgatcca tgttgactt aactcccatg tgtcacgact 240  
 aaccactata cacttgacta tatgcattaa ccaaagtagc ctgactaacg accctgatag 300  
 acatgtgcgg tatagtgtag cgccacaatg gaacctctta tataatattg atataccact 360  
 cag 363

<210> 20440  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20440

tagctttaca actagtttct gtcttcacta ttttattctt gtctggttgc tcaaattaaa 60  
 tgtattgttc taatttttta acattgctat ttttctttgt atgggaaaac acaccaact 120  
 caattttttt tgcttttgat gtccacccca acccaattat gtgtgtttaa gttgtattaa 180  
 cagtgtcatt tgttatattt tgtgataact gggaatttca ttctgtgatt gtctgtttgt 240  
 gtactgggct ggctntattg cagatgcaaa ggagacactc tcttgttttg taatttcctt 300  
 ctctctcact ctggtgtctt aaagatgaac acgtatgtat ctaccagttt tgattgcttt 360  
 caaaattaat acacta 376

<210> 20441  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20441

tcaataacta cattcacgac tactctcaaa atangggagt taagtagtca tgcgtttaca 60  
 catcaagaaa gacacactca tccaagatat atatatggtc cacaaggttc ttgcaacact 120  
 aatccacgca tcaaaggaga aatacgctaa ctaacaacat acacacagga tgatagaggt 180  
 tcgttagcac attatcaatc aatatcaaga ctacttgcac caccatgg cttgccataa 240  
 tgtccaaccg cacttcgcaa attatagaga tggccagtct cataactcat gactcaacaa 300  
 tgaatttatg gtatagcaaa cattaaggat gcgcggcaca tacaagcatt attattaagt 360  
 cttatttaat catgtaggag aaaatacgaa taaaaattca agcatgctca acaaaagtac 420  
 tcataggtaa 430

<210> 20442  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 20442

agctttgata cctcttcaag agtcgaattt gcaatccaaa gtgattgatt ttgttcttcc 60  
ttctagaggt tgggaattttc aaaatttttg caaggccctt cgtttggata tttgtgatac 120  
tgtccatgct ttgttccctc ccatcattac tcacctaag gatgtggtag cctgtaagca 180  
taaagttgat ggatcctttt cgttggcttc tagctgtgat gctctttgga aacgttggtg 240  
gtccaaatcc tctttttgaa gcaatctgga agtggagggg tcataaaaga accaaagtcc 300  
acctttggaa aatggctcat caagccctgc ttacgaatca gagtagactt agaagtcaca 360  
tgactaaca tgctacttgt ct 382

<210> 20443

<211> 427

<212> DNA

<213> Glycine max

<400> 20443

tatcagagca atcagaggaa aatcttgagg aatgttaggg aaccattaga gatgtcgcta 60  
tcgctgccgg aacacacgtg agcccgtta gaggtaaggg atgagttatt cacaattgag 120  
gaatagttag aacatgtgta gggatcctta gaatatcaat tggaatgggt ttttgggggt 180  
gtttttgcaa attttgattc tttttttaca attataactg tgaattatac atgtttgaca 240  
aatcaattga tatcccaatg agaaatttcc gtgaaattga tgtatttttg tgttgagtat 300  
gaaccctaaa aattgagttt ttttttaatt aacataaatt gtactctaac taatattctc 360  
tttgattgtt ttttttatac aaattattgt aattttttct atatgattat gtgaaccatt 420  
tgaggga 427

<210> 20444

<211> 384

<212> DNA

<213> Glycine max

<400> 20444

agcttatttt ctaagagata attcatccat agatcagacc ttacttgta ttaattccca 60  
accaacact tgcttttttt taagcactta gctttcattt cattgatttg cagcacacac 120  
acttttattt atacttacag ttttttttaa cacacaaaac tatgtgtgta tgctgctctg 180

ctttgaccat ttcattcttt taccatgtc tcctccaaat ttgggacaaa ttactttga 240  
catataactc cgcaaaatgt gagacaaatt ttccttgaac caaactgttc tgtggatgat 300  
gctctcctac aacctaagac aaggtagcag gagataaaac tgttaagctc aaagtccatc 360  
aatcaacatt attcacttaa aagt 384

<210> 20445  
<211> 443  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 20445

ntagacaaa gcaactcana atctaggtat ctaaaacctc tcaatntagt ggattttcaa 60  
ggtttgagaa gtgaaaatga gaatggggta aatctggagc aaactctcac ctacacaaag 120  
tctataacct taatctaaac ttgggtcaaac tggttttacg cctaaaattc caccaaataca 180  
aaatttgact cctcaacacc caaattttac cctagaaatg gctcttgctt tcactttggg 240  
cttttgtttt tctctcttgc acaaccaag ctntctcata agtcctaaat gacatttcaa 300  
actangacta actcactnta acctccaatt tctactgaat ctagatttag cttttcaaac 360  
cctcaaagca tcacactttt ccaactcataa cactacattc tcactttcta accctagatt 420  
aactctacct ttcattcccta gca 443

<210> 20446  
<211> 436  
<212> DNA  
<213> Glycine max  
<400> 20446

tgtaatatgt gagagaaaaa gagaatacca gtccatttcc tgtgccaaat acaagtctcc 60  
caagcaccaa tacaggaaaa ttaggagcta atgctgttac aagggtccca acaagatata 120  
ctactgcaga tccaatcaac tcctttcttc tacctaaaaa atcaaatttg tcacaccagt 180  
ttcacccggg aaggaaatag caaaaatgat agctgacaaa aggggaaatt acctaagaag 240  
tcagcaacat tgaaggccaa cacagagcca attaaggcac catacaatga tccactagtc 300  
tgcaaaagac agtaaagtc ataggcccag gttatattca agatcaatat atatatggag 360

taatttcaat tgtgaacaat gtgtctaate ataaaaatga caataagaca atgtaccatg 420  
 accaaagaaa aacaac 436

<210> 20447  
 <211> 361  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20447

agcttggttaa agaattgatg agtttggttag tnattcatga aaggctaatt ttaaagattc 60  
 aagttcattg agatccacct cttttttttt attctgattc ttcaaaattt gtattaacca 120  
 tcagatatac gctggcttcc tcttctcctt cttcatcaga ggggggtgtc gtcacatcct 180  
 cccaagtgc ttagagactt atctcttctt tggactttta atgcttggtta tagtcctttg 240  
 atttctcaag ttcttagcac ttgacttga agtgtccaag cttctttcat tcattgcata 300  
 taatgagact cttttatgtg tcttttttct ccttgaacac cttcttggag gatttattcc 360  
 a 361

<210> 20448  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20448

tgcacttctt cactctcttc aggaatttca accttnttcc cactaagatc tnttagctat 60  
 gggagccaag ttatcgcttg cgttctagac ttcaaccatt tgtaatagct gcctatgaca 120  
 ccattgctac ttcccctaag ctcttattt ttcttttcca ctctattcca tgctttacga 180  
 attctctgaa gtatcttcgc attagcttca ttgaaacctc acgcgatgaa aggctcaatg 240  
 atttctctg atggcgacc tctcataggg tagcctaact gtcttatggc caacacgaga 300  
 ttataattaa tacaaccctt cgtccttate aaaggacat ttgggaatcc ttcacatgat 360  
 cataacactc ctgccnccc ccgccttct tttcatcggt ggaaccaact aatggatgct 420  
 cccgtcatgc cta 433

<210> 20449



<211> 370  
 <212> DNA  
 <213> Glycine max

<400> 20449

agcttgata gttcccctat ttatgggtat ttcttattaa aatgtgtaaa taaatcttgg 60  
 tatatgggta acgtttgctc taaaacattt tcattagaat taaagatgaa atctgtgcat 120  
 tttcacgtga aaaccaatgc taagttttga attgcaaaaa gtagtagttg ggctaagctc 180  
 aatagtttgg ctaagcacat aatcatcact aagcgcagct tcaacacact tagcgcaaag 240  
 gagaatcttg caaagcatca acatccaagc cgcgcgctaa gcacagcatg tgccttcagc 300  
 caggctaagc tcgggacatg ccttaagccc gaaatcactt actcgcgctt agcgcagcat 360  
 cgcgatttca 370

<210> 20450  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20450

tatccttatg gctagcctcc ggacttcact ccccggtgcca ccataagat ttaagccaag 60  
 cccctacttt cgaggggag ctcccacott atgacgacta tcccgggcaa gacgatgagg 120  
 aaggagatac ccattctcgt cccctgctcc acctcaaaga tccgtccccc catgaactac 180  
 cccaacaaaa catagtccgc catatcccgg cttcaccac acccgtaaaa gaatctgttc 240  
 ccttcgtgga agataaggga aagattgagg cgcttgaaga gaggttgaga gcagtcgagg 300  
 gcctcggcaa ttacccatcc tcggatctag cagacttatg tctagtaccc aatatcgtca 360  
 ttctcccaa attcaaagta ccggacnttt gatagtacaa agggacgaca tgtncgaaag 420  
 ggcattctcg gatgtattgc cgaaaaatgg gggagtatt 459

<210> 20451  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20451

agctattaat tctagtcttt aaactcctca agcatattct aatactcatg catcttttac 60  
 attcaaaaact ggaaacttag attcctaggc atgagtcac cttttggcgc tttagtctag 120  
 cttctacaaa ctacccacac actcacaatg cgcantaatt gattcgcaag ctaagttcca 180  
 caaaatcatg cgcaaattggc attgaggcat ttcaccgaac acttgggtggg ctcatgttta 240  
 agcctgaaaa tcaagggaat gggggacatg tggcatgccc ctttatctca gaatgcaccc 300  
 tatgcctaat gccataccct acaaccccat aattcaacan aaacaagaca tatttcaagg 360  
 ataaaatcct cacattctga gcaaatacat gcaacttaga ccaccaacat atatc 415

<210> 20452  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 20452

gatctggttg aaatatcttg ctagaagggtg tttctattat gcttgtattc caagcattcc 60  
 tgacatactt cacttggcac ttgaatgtgt ggcaaccagt gcaccatatt atccctatgt 120  
 acgaagtgtg gatcctgaaa ttgagatgcc caaacttata atgccaaagc cacttacttt 180  
 tgctcactgt tgtgggctaga cattcatgtc ccataccatt aattcctacc ttaaaggatg 240  
 tgttctttga cataagatcc tttaaaacta gtcttttctt gttgtcatac accattagca 300  
 cattatcctc cattttcatc acaaatcctt tctccaggaa ttgaccaagg ctttaagagat 360  
 tattcttcat ttcgggcaca aaaagcacac cagatatgaa agattgttta ccac 415

<210> 20453  
 <211> 491  
 <212> DNA  
 <213> Glycine max

<400> 20453

agagatgtga tgctgatgac gtccgtataa tacaaactct gcgtgggcgt gacaacatct 60  
 gaggggtgct acatctttcg cttatagccg aagtcacacg gtcatagcga ggcgattatg 120  
 tcatgtgaga ttatatcgga gcaatctctg accttaacga agctgtcaac tttatgtata 180  
 cttggggcac ttgggaacac gcctaagag actcgaatat ttttcaataa tatggaaaca 240  
 atttgtgata cccgaacatc ataaatagag gtttttggct tgtgaggtga ataattttg 300

aacaccacat ttctatatac accatagaca aaacggatta taatgatcta ataacagtag 360  
 tgctgattta caattattgc agtttcaata tgatattgat tgccaggcga cccgatcgatc 420  
 gaacactagc cggatacgcc acatttatcc gaggatgtgg cacttaatca acgatgaaac 480  
 ttgcttaatc g 491

<210> 20454  
 <211> 385  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20454

agcttgtttg cagaaactta accttagaca gcataaaca cgtgaagctc ctagtacaat 60  
 attacatgga aacgcccagc aattcatgaa atcaaactga attttgatgc atcggttaat 120  
 aaggagaaaag gaattggcat ggaaatggta gcccgaatg actatggaga ggtgcttggc 180  
 tcagctatct gtgtaatgaa aatgaatgtg gaaccaaaga ttgcttaagc cctatgttat 240  
 agacgggcta tcaaagtggc gggtgacttt tgtttcacat gagtngggtt tgaaacggac 300  
 tgctcaact agtccaacgt aggaaacgca acttgatcac atgcagagat tatttctcga 360  
 gcattcattg tgattgcac tcaac 385

<210> 20455  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20455

tggagaggat gcttcaatgg agganaagat agaggagat atagagagag gggggagcac 60  
 gatattgaag gaataaaaga ggtagagaag tggaactttg aagtatgtct cacaagaccc 120  
 tcattcatca aagtacaac aagtgttaca catgcttcta tttatagact aggtagcttc 180  
 cttgagaagc tntcttgaga aaaattcctt gagaagcttc tttgagaaaa cttccttgag 240  
 aagctagagc ttagctacac acaccctct cataactaag ctcacctcct tgagaagctt 300  
 ccttaagaag attcctaaaa aagctagagc ttagctacac atacctctct aatagctaag 360  
 ctcacctcct tgagatgaga agctagagct tagctacaca cccnctataa tagctaagct 420

<210> 20456  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 20456

tgtttgcaac ttgtatgcat gtatcccacc atcgtctcat agtagaacac aggtaatgcg 60  
 tctactatta ttgctatcat tctctttcc atcattgtgg gcactacttg agataccaga 120  
 tcccttcacc tttgggcata tactttgaaa gattcatgct ctctcttaca catgttctat 180  
 aacttcattc tattcaaaac catatcagaa tcgtactaat attgocatt gaacgcaacc 240  
 ataaagtcct tccaagaatg gaccgcgaa gatttccgat tagtatacca tgtgatggct 300  
 gcccaataag actttcctag atgaaatgca tcaccatttt ttcattcttt gtgtatgctc 360  
 acattttcta ccatacatct taagtattc ttg 393

<210> 20457  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20457

tcagtgtcac aagtttccga ccacgaccat ggtgtatttt tcacaattgt agtgtggttt 60  
 ctggctgata tctttaggaa gctataaata ggggttgttt tctgtatcta tgaaatcttt 120  
 tacctaatta cgaatttaag agtnttgaag cgtggatacc accatgagga tgaattatgg 180  
 tcatcattcc taccttgccg gtatgtctat gctaatttca tatatgtctt tgagttgtgc 240  
 tttgatcatg agcgaccagt caccatagtc caagggttat gatgtaacta tccaatggta 300  
 tccctttctc tgatcttaat gaaattctc actcttttat gttaactaat actcttctta 360  
 ttcttattgt caattgggaa ttagtcaatc taagcttaat gaatgtattg tgggatgatt 420  
 ttgttgt 427

<210> 20458  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 20458

tgttgcaagc ttgttcaacc tatcaagagt cacattctaa caacaattgt tccagcttgg 60  
agaattcatc aatggatgga tacatggagc tataagaaca attgataact gtttaatatg 120  
agttatTTTTg ataataagaa tatattgaaa atatttttaa aaatatttat ttaacagtta 180  
ttcttggctt aaatattaag atttgatatac ttcttattt atgacgttgc catatgaaaa 240  
ggagagatta aaagagataa agatcgaaaa aatatccaag atatcaggaa atcattacta 300  
gctaaacaaa tcctaaagat atcacaaata tcaataatga agatttttaa catcacgccc 360  
aagtcactac aacaa 375

<210> 20459

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20459

tgcactacta gtagcttgcc aacgtggctc caaaattggt atgatgagag aagtgcata 60  
atggaagatc aggtttgtat cataatagtc acattttgac tcattaaaaa aaattattaa 120  
taggatttat tnttttaaag catttctgat ttttttcccc ttcttaaaca ggataatgca 180  
aggcttaagg atctgtgcaa gacatggaac tcattatgca actcaatata cagacaccct 240  
tcattaatg agaaacaagt tttctttggt tcatcatctc cttcatctcc cacttctgtn 300  
tcctcacatg aaagaaagtc caactttcac cacagccacc taaataggcc aatcatttct 360  
gaatcagaag agtcacacaaa tgaatgtgag tatacactga aactgggtgat gatggctatg 420  
atagcaactt tataatgttc atgccagata gt 452

<210> 20460

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20460

agcttgttac aagattctcc ttgcctggca cttcaaaacc ttctgggttg gtcatataga 60  
tgtcttcctc taaatcccca tgcaagaatg cagttntaac atctaactgc tccaagtga 120

gattctctgc agctactatg ctcagaataa ctctgatggt agtcactctt acaactggag 180  
 agaagatctc tgtgaaatca attccttggt tctgctgaaa cctntcacc acaagtctcg 240  
 ccttgatctt tcttctaccg tcagattctt cctttagcct atagaccac ctattctgta 300  
 atgccttctt tcttctggc aatntagtta aagaccacgt cttattcttt tgaagggatg 360  
 tcattctatc tttcatcgct agctcccact caatagtgtc a 401

<210> 20461  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20461

tctccgtctt ttcctataa ataggagca aagggaagtt tttagacgtt caaccttctt 60  
 ggtatctgag gatcacttga aattagtga aaaaaatcgt ttcctgaag aaaatccaag 120  
 ccgaggcgct tccgtaacgc gtctgaaacg tttccgtggg tgattccgtg aagattttcc 180  
 gccatctatc gttcgttctt catcgttctt cgtcgtcctg cggctcttcaa ccgataagtt 240  
 cccgaaatcg aacttttcaa ttcattctat gtacccttgg tggttccac ttgtttcgcg 300  
 tacttttatt ttcatttcat ttactttctg tatccctttt tgacgtgctt tagtcattta 360  
 tttagtcatt tntctcgct aatcaaaaaa taaaataaat ntccaccgat ca 412

<210> 20462  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20462

tagcttcttt tggactttga acaagccatc aactcctctt tcagaaccat gctatgtgct 60  
 cgcgactggg ccttctcttc ccttcgcaac ttgagttcat tattgctacc ccatagagct 120  
 ccgcgaaatt tgttccggcc gtactcttnc ttgcgagccc tcttggtctc ttgttcaaag 180  
 gcttttgccg taattgcatt ctcttcccg acccgcgcac tcttccgaa tgtgtgtagc 240  
 agccaacttg aacttctcct tggcgagtat tgcctttcct aactcgtttt tgagagcttg 300  
 gacttctcg tctcttccg gcgcttcaaa atctcttcgc tgacgactnt taacttggcg 360

agccaatcta aacctcgtat g

381

<210> 20463  
<211> 373  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20463

tgaaggacat gcacaaagta tgactatatg atgtgtcaat ggngtgtagc aagcaaattgc 60  
tcacctcccc ctctaaaatt taattggatt gggattctcc caattcaatt aaatctatatt 120  
tccaacacac acatganata ttcactcaat tcatgtgaaa ttacaaaact acccctaata 180  
caaaaactag tctaggtgcc ctaaaatata agggctaaaa aaatcctaca tttctaggggt 240  
accttctcta tattatggag ccctaaatac aaggccgaan aataatgaaa ccttaatat 300  
atatgtacaa agataagtgg gctcatactt agcccatggg cccgaaatct accctaaggc 360  
tcgtgagaac cct 373

<210> 20464  
<211> 339  
<212> DNA  
<213> Glycine max  
  
<400> 20464

tagcctttac attcaatttc gagcgtctcg atatattacg ggactcaatc agacatccga 60  
gtaaaaattt attgtcgctt gaattggctc agaggctcaa cattcaattt tgagcgtctc 120  
gatataattac gggactcaat cagacatccg aataaaaagt tattgtcctc tgaattggct 180  
cataagttga acattcaatt tcgagcgtct cgatatatta cgggactcaa tcagacatcc 240  
gagtaaatat tattggccgt tgattggctc acaggctaac attcaatttg agcgttcgat 300  
atataacgga ctcaatcaga catccagtaa aagtattgc 339

<210> 20465  
<211> 342  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20465

gtgagcaaat tcaaacgaca ataaccttnt tctggatgtc tgatngagnc ccgtaatata 60  
 tcgagacgct caaaattgaa tgttgaacct ctgatgcaat tcaaaggaca ataacttttt 120  
 actcggatgt ctgattgagt cccgtaatat atcgagacgc tcgaaaatga atgttgaacc 180  
 tatgagccaa ttcaaacgac cataactttt tactccgatg tctgattgag tcccataata 240  
 tatcgagagg ctcgaaattg aatggtcaac ctcttagcca attcaaacga caataacttg 300  
 ttactcggat gtatgattga gtcccgtaac atatcgagac gc 342

<210> 20466  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20466

agctttgact tgagtcatca agagattata aatatgtgac catggcatga gtttcaagat 60  
 catcaatcat ctttgaatca tctatctttc aatcttcttt caacattctt caatcaatct 120  
 tttcaactct ttctacagca atttcggatt catcttctct tcatctttct tcaaagtttt 180  
 ggtcaatact ttctctttca agaaaagttt ttgataaaa aaccttgtgc tattcatctn 240  
 tntcattctc ttctcttcca tgtcggcctt catctgcctt tgcacctcct gaattctttt 300  
 gtgtctctct tctcccttac acaagattct aaggactaac cgcttgagaa tcttttggat 360  
 ctctctttcc cttaagcaaa gagtcaagg gactaccgcc tgagatattt 410

<210> 20467  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<400> 20467

tcacagatga ccagtccatt tatcatccca ccactcacgc caacttatga gttggagggt 60  
 agacccatgc atatgttttag ctcttggtt ctattcccta tgtcaataat cgcgaaaaag 120  
 aagtttacta caggaaaaac tacattaaaa gctctctatt ccgtctagtc tgatattacg 180  
 taaccagtcc atttcgtatg tctttcgaag cgaggggccc ggtttccttg tttcctttcg 240  
 gaggacatgg tacatgcctt gcaagaaaat agtctttata ataataatta taataataag 300



aagtcctggt ctctctcggc agctaccatc ggatcatcgg agttgggcag ttacatcttt 360  
cattcaataa ccagtggttg aagggttgatt cccaacaaga gcaacatggt caataagatg 420  
ggagctaaag gaagactcac ata 443

<210> 20468  
<211> 253  
<212> DNA  
<213> Glycine max

<400> 20468

atacccttgt gtacatcgct ccatgctatt gagaggacga acacgaataa taacttacac 60  
atacaaaaaa attcccataa ataatttaca atttataaat taaaagaaaa gaatggtaga 120  
acaaacctga gagggtaaatt gggttgtcaa cctcaagtcc gtgactgcaa atcattgaat 180  
ccaaacctta gcttcaaatg acctgcaaat gtaggctggc ccacaaatac attatctatc 240  
acacactata act 253

<210> 20469  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20469

tagcccatca tcaatattga tttcaagaaa caaanaagca agtatatata tcagtgaact 60  
gagccagacc aaggaaaaat acatcaaaga aaataaataa tctagtatag ctaattttat 120  
aatcagataa agcatctaag acctgctgcc atgtggtatc aacaagaggc agccgccgag 180  
cattgccagc atcaaaatcc agtacaccat aatccctcaa ccgaatctac acagcaataa 240  
ctaaaataag aagtcttttg agaattaaat gcatggcatt atctataaga cacattgttc 300  
aaaatgagac aaacccaaag gaaggcacgg attctttgca aattcccaac accaacacca 360  
agagcagcct accattagat aaaaaagcaa gcagaaatta agtggttgata acaaaaacaa 420  
attcatgctt gctctcttat atngaatatg aaac 454

<210> 20470  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20470

agcttctaag aagatgtact actcacctaa tgtcacctaa cccacatggt gcatctctaa 60  
actcctataa aacttcatct tcaagataca ctctctttgt ctttgagctt caatactccc 120  
tttttggcca cataactaac tacttgagtt ttcagttaag tatttctaag tgatcaattg 180  
tcaactgcta aacaactatg aaactctacc atcaccaaac aactaaaaga ctcaactcaat 240  
caatgcctac aaagctactc taaccatcca tgtaagtttg agcaaaacaa cctctaaatt 300  
aatttcaaat tctcatctaa taattntttt tggatattaa atcttaaaaa tctatctgac 360  
tttaaaggat gcatgaatgt gcaactcaata gtaattttct tattaata 408

<210> 20471  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20471

tccatcaaat gaaaaccttg atctttgttc cctctatcat tatcattagt aacctagagt 60  
atcgatgtca atattattct cccaaccatc cttattttct actntcacca ctcatctctca 120  
ctatcatcca agtatatcca caacacatgc accacatcta gtgaagggct ttatgaagaa 180  
cttggcaggt tctcagataa cattgcaaac aacatgacaa ttttaactga ttcctttntc 240  
tgtttgaatg agttgcanga atagagggtg caaggaattt gagtttaatt tggctactat 300  
gatatacagt tttttatttt caactagatg tgcataaat aatgcactca ctctntatga 360  
ttgcatcctt aaaataaaac cacacagacc accataacaa anaataaagt tcttcaatgt 420  
tcatccatac ttaatcctt 439

<210> 20472  
<211> 350  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20472

agcttctact gtgaagctat cttcgtatcg agcatggcca aatatgcatg acagtcggtt 60

tgcgctttac aagttgccat tgcgggttcc caaagatgac caagaatatg ctggtttatg 120  
 gggaagaact tttggttggc ctcttgaaa gccttctgaa gacaagcctg gaaaggcttt 180  
 attctttctt ctgctctctt atgaggagtt ccagggacaa cagcttctca ttgcaaccaa 240  
 aattttggaa ggcacacact atgtgttaca tcctaacggt tcancaattg ttacagcaaa 300  
 tatcaatgat ccttcatccc aacccttttc ctgggacact gatgcagact 350

<210> 20473  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20473

tatcagcaac gaactgagga gtcccaaact cttcaagagt cttaagacga actgngttta 60  
 ccacaacccc aatattgtta cttcccatat ctgcctcttg aaacaacaca gttgcccctg 120  
 ctttatcaac ctgttaaacc acattagcaa agactgttcc ttttaagagaa aaaaaaata 180  
 caattattca tgatatgctt attntgtctt cgccataaac acaatggtaa aaaatcaagg 240  
 gatgtcagtt tcatgtcatt tctgtttcct gtcatttcc taacagtttt tcctttattt 300  
 ttctcacttt ctagttgaaa ttgtagtat attattggta ctattgaaat attattttat 360  
 attattaata aatactatta tataacaatc aattcccact tgcaacaagt atctatcaat 420  
 tntgctaact ctctaattgt gtgaatcact 450

<210> 20474  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20474

agcttatgct cttcaattg cacaatgctc ttaatatgtg aagagtatcc ttatggaaac 60  
 ttcacccgat gaagacacta acaaaaattt atcttctcct ttntggacaa agtatgacaa 120  
 gttgggggca agtaaatttt cttcccatca gaccttggat gcaactgtga tcatatcccc 180  
 atctcagcta gatcttgatg ggtattcaag ccatacctcg tcttgccctg aatgttaaag 240  
 agagtcccaa tcacattgtc acatacattg ttctccacat gcataacatt aatacaatgt 300

ctaacgtcta gatcaaacca gtacggaaga tacaagagaa tggacctctt cttccatattg 360  
caagtcttaa ctttattcctt tctttgggtc tttccaaata cagtat 406

<210> 20475  
<211> 447  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20475

atacttagct tctgttccgt tcttctaaga acatcatata tagggctagt gattttatat 60  
tataancaac cttatcccac cattgatcat ccaacaaagt atctttcaca aatttaacct 120  
ttgcaacatc atcttcttta taagaagacc attgggtcact aatgatcatc tcttggaggc 180  
ctttcttcaa tagtntgaat ctcttgagca ttacaatagt ggaggcaaatt ttttgtggag 240  
caatggaaag caatttcaat gaatcgaatg aattgaaaat tgatagtctc atagagtgc 300  
tcatgacana gttttcacia atattgcac atccgcatat tgngtgatcc aagaacattc 360  
ttcataagca acattatctt tttctgtatt cttgggtgca catatgttct tcanagcang 420  
aattaatgta tggacaacac atggagt 447

<210> 20476  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 20476

ggtttgcaag cttgttcttc attctctacg ccgacgccac tggatttcaa atgcatatct 60  
gcaatatctg cctgcttcca cactttaact aatgtgtact ttgataattg gatttttgca 120  
ttgcttggtt tttccctttc attgcaggta tatccagagc acatgtgcca cctctgggga 180  
aggactatat gaagggtctg actgggtctc caacaatata gctaacaagg tatgccttga 240  
aaatctgcat cttttgtgtt cggttgcttga cctgtgatac tctgatttct gggttactttt 300  
ctggatcacg cctaaggagc attttgtgga atgccgctat cttcttgctt gctttac 357

<210> 20477  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20477

tccttcactc ttccagcagc accaaacaaa tccaccacgc tgccatatat ctctatatct 60  
ggtgttatat tataataact ggtcattaat ctaaaatatc tcagcccttc gtccactaga 120  
ccagcatggc tacaagcact tagaactgcc ataaacacca tcttatctgg tttaatatga 180  
tgagaatcat gaaacaggcc aaatacagtc taaaggccca agtggagaag gacgaaggcc 240  
caagtggaga aggacaaagc ccccgagtgg agaattgatga aggcccaagt ggagaaggat 300  
gaaggcccag aggcagagac actatcaaga ctattaattg ttgctgaagg cccaaactaa 360  
tttgaaggcc caagttaaatt aagtttctag ttataattta tttttattgg aattttggcc 420  
canactgtct agaaagccca tgtctatttt tatct 455

<210> 20478  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20478

agcntttaca acatccaagc aaaacaacat tcacacagca caagctatca cagcccagca 60  
aaacagagca aaggcagaaa actctgcca aacaccaacc aaaaatcaca gctgttccca 120  
ctcaaagacc ccagtaacaa tgtccttoga tccaattcgt taaccgttgg atcgactcca 180  
aagatttact ggaagtctat agtgcataag cctacattat gaccggtggg atctactagc 240  
aaacatncag aactcattct acattactct ttccacaacc agcaaataca tggatgtttc 300  
tgcacttgtg cagaattctg ctggcacaat ttacagcaga atctgcacaa agagcatatt 360  
gcgaaaccac acttccttca tcaatct 387

<210> 20479  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20479

tgtgccttta cganaagggt catcgagtca agttgaagta tggaagtaac catcttgcaa 60

aaaattaagg caaaagatgg atcgtgttac atcgtgtgctt cgtctactgc caaacacatt 120  
 tagggctggt gatgtccctg ttacttccag tttcaccttg acgaagatgt catggaccat 180  
 gttgaanatc taaattgatt caaccccata tctagtgtac aaattcgcaa tacttcaact 240  
 gtgcatcatt cgcatacatc catgtttgtc attggttgca ttgctcattg cattctttcc 300  
 ttgaaaaaaa aagaacttaa tcattgttat atataaaaaa aagaaccgcg tntacggcgc 360  
 ccttaccaaa cctgtgctag agctagagta atgggtaaag ca 402

<210> 20480  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 20480

tgaatatatt tatgggctca atactgcatt caaataaaag actatcgacg ttcaacgttc 60  
 ataggatgat acgcttcaaa tcttgagcga ggtaatctct tacgggacac acccggcac 120  
 cgagtaaaag ctatagcact tgatcttctc aaagttccat gattatttcg aggactggaa 180  
 acgaacggag actaggtacg tccagtcaaa tttatgtgga tgactttata agagcttctg 240  
 gaaaaattcc cggctctaaag acacggcatc ttgagactct aggaacagca cgtagtga 300  
 tacttgagat tgtagaatat cacaatcggg ttttcgc 337

<210> 20481  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20481

tctatataag ctgaccgatc ccatcgataa acacattgng ttttgatac agaaaaccac 60  
 agtgcattcta ttttatatta ccgagagtga ctctcctaaa ctcttgagtg atacaagatc 120  
 accctggctg catcaaagga ctttcacaac ctttgagtgt tgccctcgct tgatacagt 180  
 actctttgct tacttacatc ttcaccgctc gttctttgca accaccattc cagaaaatcc 240  
 acctctggcc agaattatct cgtggccata actcccattn tacgcactca tattaagaga 300  
 ttcttg 306

<210> 20482  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20482

agctttttat atcgngtncc ttactatgtg aagctggcat cctcacatgg cacgtgaagt 60  
 ttatgatgca tataaattca taaaaggatg tatttttagtt tgtcccactt gttcttcgtg 120  
 aagttaagtg aaactcaaac ggtcaggatg tgaataggga gatataacgt tggtagcgag 180  
 ggaggaataa gttgtgggat tgaatctttt tactaacaag aattaacaac taatatttgt 240  
 tgataaaaaa tcaataacca atgtgaatag ttaaaatcaa agagagaaaa agttatattt 300  
 tatcatatta ttctaacggt taatactaac ctgcattgat ttttttaaaa aaagtaacct 360  
 ggatcgacat tagttggaaa attaagtgtt tttctatgaa gtg 403

<210> 20483  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20483

ntactcatga ccaccaatgg tctatatata tgtgacttat tcacgaaatt actcagagat 60  
 tntcagaaca acaaagtgtt tctctctca aagagcaaatt tcattttatc ctcttaagaa 120  
 ttccttggcc aattcaattg caattcatta aggaattatt tgagtgtcga atctgtaaaa 180  
 tccatctctt tctagagaga tttgttcttc ttcttcttct cattttctaa gggattaaga 240  
 gactgtgagt ctcttggtgt aaaggatctc taaacacaaa ggaaggattg tccttggtgtg 300  
 tttagaactt gtaaaaggaa ttacaagat agtggaactc tcaagcgggt tgcttgngga 360  
 ctggacgtat gcacaagggt gtggtcgaac cagtataaaa ctgagtttgc attctctctt 420  
 cccttaatc 429

<210> 20484  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 20484

agaaaggaac catctnctcg acaattcttt aatctcaaca ccaaaaacag ctggtgcgag 60  
cgccctcact aagactgggc ggctggcaag tctctcgag agataatcag acaggtcatt 120  
acaaagatga acatcttccg aaagaactaa ttcaagacct cctttaagaa cggaaatagc 180  
aagatttttt catgacctg gatgcattaa ttctcagagt catatgagag gctatcaagt 240  
cggteaacca acggtataag agaacttaag aacactatgc tatctatatc gacagcgac 299

<210> 20485

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20485

agcttatagt acttcacttg aaacattgtc tttcttcccg actaactaga tgcattgcaa 60  
agggaagta atcaactcat ttcttctgca taccaacatc ataggatcaa gaacaccgtg 120  
acaaaagtgt gatttgaggt atgtttgttt tatatctgcc gataactacc ttgcaagccc 180  
taaaatcata caccatttgt aattcccatc atgtcatgaa tatgacacat aaaatgttaa 240  
tcaatctcat tctgacacca atttcaataa ttacagtata ccaacacata ttatcactca 300  
agtgattcaa ccatgatata tangattgca ctatagtcac aaagagaaca catttaagaa 360  
gaatgacatc ctaatttata tcaatactat aaagctcta 399

<210> 20486

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20486

tctagaattg catgtaaaaa atatatggca taatttgctg taaaggaagc tttccactca 60  
agagtgtgag tacatccatt ccatgttctt aggatcaaca aaatgcttta atgtgctaga 120  
gctgatagtg tttagtctgg aatcagaggt gcatctagaa agtcacaggg aacatgtgct 180  
agagtcacca ttggtcaggt tctttntctt atgtgttgta aggagaacaa caatcatcat 240  
gcacaaaagg ctctttgtgg tgctaagttt aagttcccta gtcgtcagaa gatcatagtt 300



agctggtgtc agaccctaatt ttcatatggg ggcaatcatt tgcaaacatt tggattcttt 360  
ctagccgaat tgagctgctt aacacttgat tttgcaatca tttcaccttn gaagtcatga 420  
ttttgcacac tttga 435

<210> 20487  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20487

agctntacta atagaatcat cttgatatga ctgttttgga agtcctctta cgaggctatg 60  
cttttgaagc tttgagatta acctccagct agcatgggtca aacttcttat tccatacnca 120  
gtaatgctct ttgactaaaa gtaagcatga caccttttga ttggatagat caccaagttt 180  
aatcttatag tgatttcctt gtctcttagt agacaagagt aaagagtgtt cctttgtttg 240  
gatgatacac atatccttgt taaagttaaa ggtgacattg tatccactat catacaattg 300  
acttatgctc aacaaattat gttcaatcc tttacaagt aaaacattat tgatagaagg 360  
ataataagga atacaaacct tacctacacc tatta 395

<210> 20488  
<211> 462  
<212> DNA  
<213> Glycine max  
<400> 20488

tatgctgcaa acatctacaa tagacctcct caacctcagc agcaaaatca gccacaacag 60  
aataactatg acctctccag caacaggtac aatcccgat ggaggaatca tccaacctt 120  
atgttgctga atccttcaca acaacagcaa caacaacaac cttactttca aaatgctgtt 180  
ggcccaagca gaccatacgt tctccacca atctagcaac aacagcaaca acagaaacaa 240  
caaacagtta aggccccctc gcaaccttcg cttgaagaac ttgtgaggca aatgactatg 300  
caaaacatgc agtttcagca agatatcaaa gcctccattc agagcttaac taatcagatg 360  
ggacagtgg ctacacagtt aaatcaacaa cagtccaga attctgatag attaccttct 420  
caatctgtcc agaatcacia aaatgtgagt gccattacat tg 462

<210> 20489  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 20489

agcttttagt ttcaagattc aagaatcaag attcaagaat ccagattcaa gaataatcca 60  
 aagattccag actcaagaat tcagaatcac gagaagactc aatcaagata agtattaaaa 120  
 aatttttccc aaacattgag tagcccaaga agttttcaca aaatcattac caaagagtgt 180  
 tactctttgg taatcgatta ccagaagata gttattgatt accagtgggt taaaatgtta 240  
 agattttcaa ttcaagagtt acaacttgtg tttaaaccat ttttaacttgt ggtatcgatt 300  
 acacaatcct tataatcaat taccagtgggt tctaaatgggt ttaatcttca aaattcaaaa 360  
 tgaagagtca catatgttga tgtgtaatcg attacacctt aatg 404

<210> 20490  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20490

ggcttctaca attntgagat tngggactca aatgaccaga ttgttaaaaa acgagggact 60  
 caattggtga actaaatggg aggggggctg atttagtgag ttggaataaa taaggggact 120  
 atttttgtaa ttaaaccctt aattttcata tgtttattta ttctcaattt agttatattg 180  
 ttaattttca gtgttatgat gttatttgcc aaaaaattaa cttaataaaa tataataaat 240  
 aaattaatag tgattacaaa taaaataaaa tattttttat ttttataactt gataattatt 300  
 tttcatttaa ttgtcatcat cataaatcat tgttatcact ataaacaatg tcatttatta 360  
 tcattacgct aataatgtat atttagtata acatctaatt aaaaattcaa aagtgccttc 420  
 agtgattaaa atgacaatat tgtgtaagtc cat 453

<210> 20491  
 <211> 260  
 <212> DNA  
 <213> Glycine max

<400> 20491

agcttggtttt attaactttc tttcgatgat atattcctgt ataagtttaa gtctgggggtg 60  
 cttttgcttc tctggttcat taattctcat caatatatta gaaagttacc taagaaatgg 120  
 acaaattcac atgtaatctg ttgatttaca cactttccgc ccgctaaaaa gtaataactc 180  
 ggttggtttt gatatacaag aaaaacattg aacatcgatg aatatattaa ttctttatct 240  
 tcaataaaac atcttcaa 260

<210> 20492  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20492

cttgaggggtg cgtagcccac catcttttca tagtagagta tcgattatgt gtctaccatc 60  
 acgattatcg tctgcctttc catcattggg ggtaccactt gggccgccag atccctccac 120  
 cttttgggcg tgttctttga aagatccgtc cccctttttg caaatgttct gtagttgcat 180  
 cctatccaga accatatcaa aattgtacta atactgccta acaaaggcaa ccattaagtc 240  
 cttccaagaa tggactcggg aagggttcaa gttagtgtac caggtaacag ctaccccagt 300  
 aagactttca tggaaggaat gtatcaacaa ttcctcatct tttgcgtatt ccctcatctt 360  
 ctgacaatac atcttttagat gggtcttggg acaagtagtc cncttgtact tgtcanagtc 420  
 cagcaccttg aacttgggac gggtgatgat a 451

<210> 20493  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20493

agcttcttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60  
 atggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120  
 aatcactatt aaaggacctc attgaagctc anagatccaa cctccataga aacccacaa 180  
 gcaagcttcc atcataacca ctctatttcc cctaccaggg atatccaact tggtcactgc 240  
 actcccatg tacatacaca acatacatca tcacaatgac attatcaaca tcaacaacat 300

ctcatctcaa tgtcattatc atcatcaaca tgateccatc tcaatgtcat tctcaacatc 360  
 aacatcatct catctcaatg acattatcaa catcaacatc atctgatttc aatgacg 417

<210> 20494  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20494

gattcacatt ctcccccttt gtcaagcaaa ttctttttga tatctatcaa acctgcatga 60  
 tttacacaat tcccagtaat ttatacaagt ttgtatgttc aagctgtcag caccagcgat 120  
 ttcaacctag aaatcaagaa tagtgtttat gttgcttaag gcttggatag ttacaatttg 180  
 tgtttgctta tgctcaatga tcttgaataa caaaattcaa gagaacttaa gacttatttt 240  
 gattcacaaa tccagccaca actcagcacc acaactcaac ttcacatag gaatcatgta 300  
 ggaaacttag aaaacaaaaa aaagagttca acaacaagac tacttctagg aattgattta 360  
 gaacatgtta tgaactaaat aacatgcatg aattagactc anaattctaa agataggcta 420  
 agaatgacan gaatacatga acaaatgtat cta 453

<210> 20495  
 <211> 363  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20495

agcttataga ggaagcttca atggaggaag agaatanggg aaaaagagag gggggcacga 60  
 aattgaagga gaaaaagagg gagagaagtt aaactttgaa gtgtgtctca caagtttcac 120  
 attcatcaat gttgtgacaa gtgttacaca tgtttctatt tatagcctag gtcattaaat 180  
 aaatgtaaat ttcatttaca tttcatgtga atctaagagg aatattcaa gaatatgcca 240  
 aagacgtctt agcatattcc aagaatatgc canaggcatc ttagcatatt ccttttagat 300  
 gccacaagaa tggaaggaat gtgtgattct agcacatgan aaaggaatat gccacaagaa 360  
 tat 363

<210> 20496

<211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20496

tctagattag tgtaccagat gaccgctgcc ccagccaagc tatcttgaaa gaaatgcatc 60  
 aacaacttct tgtccctaga gtacacaccc atcttgcgac aatacatttt gagatgattc 120  
 ttaggacaag ttgtcccttt gtacctatca aaatcaggta tcttgaactt cggagggatg 180  
 acgacgtccg gcactaagca aaggctcggtc atgtccgcga acggataatc gccgaagcct 240  
 tcaacaactc tcaatctctc ttcaataaga tcaagtttcc cctttccttc tactgccagg 300  
 ggtggcccta ttggctgtgt tgggtgggtt cgaggttctc ctgtgatgtt gggctgaggt 360  
 agtgcggttg gtgttggtcc ctcggcgggg aacggngagt aggaatcaat gtctccctga 420  
 gcatgcactc gacgatcctc gtggacc 447

<210> 20497  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 20497

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 ctaaaccata cttcccacga ttaccttgag tatttatcag tctagttatg ccgccggtgt 180  
 tttttcctaa acccatcccg ggctcataac cgttccccaata cataactcgg gccatcatta 240  
 ccgctgcate ggacagacta agctgcccga aaaggaggatc cacggaggaa atgctgacca 300  
 cctcaaaaga ctggagaagc agttctaacy attcttct 338

<210> 20498  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20498

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 ttttcttaat gtgtagttag gtgattntaa ttagattgca agagaaaata aatttaattt 180  
 tcatgtttta aaaaatataa taccttggtg tgtttaagtg ttgtgggtta aattgttttg 240  
 ggcttgaaac atggtttttag agggctttta tattgtaatg tttgataaaa aaaatggtaa 300  
 acaatggaga catgagcaat gtaattcttg tactttaccc aaaaaaagga tcacagttaa 360  
 gtgattttgt gtgatgagaa tctctccctt tttcattant accttcttnt ctctctcctt 420  
 gcttttcta 429

<210> 20499  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 20499

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 tttgatattc cataagggtc cagatattcc attcatacat ctcttaaagg acgggtgtga 120  
 ttaacttatt atacgtttta aatttactta ttaaatagata agtctttaat aattaagagg 180  
 gatttttggt caaaataatt tggcagaaaag ccgtttataa agtgaaggat atgatctatc 240  
 tacctgttca ctgggatgtg atttgaatta acatagttca attaataaaa aattaaccgg 300  
 ggattgggtg attaaattat tataatccga ctaattaact aatttttctg ggttgttgat 360  
 ccgttttgcg attttaaatt tgagagaata tt 392

<210> 20500  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20500

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 aaccctccat tattttctcaa tattatgctt atgtctctct attagtgaat tgtttctctg 180  
 ttgatttcac aatgcaataa cccctttggc tctcatgggg ttttatagcc taacatgctc 240  
 caaaaaagtg cttggccttg tcaccctctg attaatggag cttgcactag gacaaagggt 300

gagttttatt attgcaccac ttatgaacat anagcaggtg tatacacana ttgctccac 360  
 ttatttgtcc aatcaatgta ggtgtgtctt tgccaacaca attctttttg ttttcttact 420  
 tccaaatgta gcattattca cag 443

<210> 20501  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20501

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 agagagcaag atatgaagag ccaatggttg atacatggac ggagatgaaa aagatcatga 120  
 ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180  
 cccatagcaa caaggggggtt gaagagtatt tcaaggaaat ggatgtgctc atgattcacg 240  
 ctaatattga agaagatgat gaggtaacta tggctcgcat tcttaatggc ttgactaatg 300  
 atatccatga tattgttgag ctgcangagt ttgttgaaat ggatgatttg cttcacaaga 360  
 tgtccgatcc actagcataa tataacgag 389

<210> 20502  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20502

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 atgtgatgtg cctaaatcgg acatccgagt taaaagttat gtccatttga atttctcgag 180  
 agcttccggt gttcaatttc gagcgtctct atatgtgatg cgcttaaate ggacatccaa 240  
 gttaaaagtt atgaccattt gaatttctcg agagcttccg ttgttcaatt tcgagcgtct 300  
 cgatatatta tgcgcctgaa tcggacctcc gattgaaaag ttatgagcat ttgagttgct 360  
 caagagcctt catatggtca attctagcgt ctgatatat tatgcgcctg aatcggacc 419

<210> 20503  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20503

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 cttaggcact tctctctctt tcgaatntgc ttggaaaaat tgtttccgtg aagaaaatcc 120  
 aagccgaggc gcttccgaaa cgtttccgta acgtttctgt gaggaatttc gcgaagggtt 180  
 cgaccgttct tcgacgttct tcattcgttc ttcacgttc ttcgatcttc aacgggtaag 240  
 tacctcgaac caagcttttc gattcattct atgtaccctg ggtgggtccac attgtgtttc 300  
 gtgtattttt attctcgttt catttacttt ttataccccc ctttgacgtg cttaagccca 360  
 tttatttaag tcatttctcg ttaaccctaa aataaa 396

<210> 20504  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20504

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 gtcgactctc cacatccaca aatcacacat aaatccacca tccccagttg cccaccttca 120  
 actgagctca cgtactccca cgtagccctt atcctcgttc ttctcaacac cgggtcccca 180  
 tcaatccctc caagcttcca caacatccaa gcaattcaac atccaaacat catgcactat 240  
 caaaaacaag aaaacagggc agaggcagaa aactctgccc aaaacacaaa ccaataccac 300  
 agcttttcctt actcaaatac cccagtaaca ttctcttcgt tctaattcgt tcaccgttgg 360  
 atcgactcta aaattttact ggaggtcctt agtacataag tctacattnt gaccgttggg 420  
 atctgctata aaacgtnacg aaccaaatat gt 452

<210> 20505  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 20505



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 taatggtaaa tatatcaaca gtgtacaaca ttgatataatt gtcttctaaa aaattaatac 120  
 aaatagtgcc aatccaaatt gttatgactt ttttctttga ttattaaatt cctattaata 180  
 gtagtggttag ttcaattccc actgcctttt ttttaatggt actcttttaa aaccggttc 240  
 ttgtcatttt cataagtttt taaacaaaga attgcatggt tctttcaata atgtaaatta 300  
 gttttactca tttcgactc aattaattat tttttaccta ttttttattc 350

<210> 20506  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20506

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 gctcaactag cagaaaatgt ggagcaaaca gcaagcttgc ttttaagggtg gtgcacgtat 120  
 gaagaatagt ggcgtgaaag ggagcaaacc tggattgtga aaatggaata caaattgcag 180  
 aattgttaat gatttctaga atattccctt tacacaaaat gacaaattcc gttattaggg 240  
 aactgggata aataaaagca tttgtaaacc attgaggggc atgaatgaat gaaatagcag 300  
 atttcttccc ttagctttct tcttctcttc ttcttcttgg aggtgttgac cctcgaagtt 360  
 cagctagctt ttcctgcac gtnacacata attacagtan aaatgaagag taatgcatca 420  
 ttaaggattg a 431

<210> 20507  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20507

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 gcaaaattct ttttgcggt ttttagatgac gagaggtcag agcctccata aagcgacaca 120  
 caatctccca ccgtattata gaatatcggg ccttgtattg gttagatacc ttaaactccc 180  
 cacaagactc ttgaagatca tggagtctac cttctctcct tcatcagact ttgataactt 240

caagccacct tccatagggtg tgttcacggg attgcactca agcatattaa atgtcttcaa 300  
cacttcttgt gtgtacct 318

<210> 20508  
<211> 437  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20508

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agaggagggtg ttgcaatata attcaacgct ctaaatgtcc acgtattaag ctaggaataa 120  
atcatcattt ggttgcttga actgtaagaa gatttgggtca agtctgttgc tagattttag 180  
ctatattgta cgtgaacatg tgcgtcagtt tgagtcagtt ttatgccact tccttaggtg 240  
atgttagtcg tggaaagtgg agtcagttat caagttactt gagtctattt aagcattggt 300  
atgtactgaa gtctattaga gagaagaacg ttgatttcct cattgatgtg gctctcaaga 360  
ttgatattct atccctctaa ttgtacatat aacagacagg ctaaaacata cgttttatgc 420  
attgaaatgt aattaaa 437

<210> 20509  
<211> 357  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20509

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tttttacttt taaacgatta aaatgaacct ttagaagtct aaaatcaaac ttatgtgtaa 120  
ttttctttca tcaaagaact atgtaggtct gagtttctca tcgcaattga ggatacatag 180  
gagcaagagc cccgctattg tcgaccccca aaagataaaa aacataaaaa atggaaaata 240  
aaagaaactt ggtgtcatga ttttgcacac ttgattaaac gctgntgtcc cttgtgacgg 300  
acgcgtgggg tgctaatacc ttcccatgt ataaaaaact cttgaacctt tattttct 357

<210> 20510  
<211> 440

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20510

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aaattggatg agggaaagag tgggttttcga aatctgcact ttatgcagaa ttttgctgtt 120  
gaaatgtgca gcaaaatfff gtataagtgc agaaaaaagc ttgtgtatgg ctgggtgtaa 180  
aaagggtatt acatatgggg ttctggaaat tttctaagag atcccaacgg tcaaaatgta 240  
gacttatgta ctagagactt ccagtaagat tttcgagtcg atccaacggg taacgaattc 300  
gaacgaagga aatgttactg gggatattgt atgtgaaaag ctgtgattnt gggttgtgtt 360  
ttgggcagag ttttctgcct ttgccctgtn ttgcttggtt ttgttagtcc atgatgattg 420  
gatgtggaat taatnggatg 440

<210> 20511  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20511

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ttctgtttac tcatgatcaa attaatfata ttgttgaaat attttataat ttacaacaat 120  
aagtatctta acattttcag acaccaaat tgaatattata tattaagggt agttcaaaat 180  
tgtagaaaact tcagcaaaat tttgaattaa tattctccca tttcatgttt atccacatag 240  
tttctaacta ataataagct taataacata tgcataaatg ttgaacaatt aaaatgctaa 300  
aaataacatg atttatgttt ttaatatcaa tggctnggag ttcttgattt ctaacaacga 360  
atagagaata gcactacagc aagcacactg aaggaagagt attcataagg tgcaacatca 420  
gtataaaatg ggatagaagt gataaaccac catca 455

<210> 20512  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 20512

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gccttggatg agtgtgtctc tcttgatgtg taggcacatg actacttaac tcccttcttt 120  
tgtatgtagt catgaatgta gttgggttaag tttgtgattc cttaatacat ccttattgat 180  
tgggttaattc ttactttctta tatgtacgtt atatacttgg tataagaacc ttataattct 240  
atgtatgcta gtagtatagt gttctgcctt aattgcatag atattatggt tgttgtgatt 300  
tccttgtttg agcgatgtta attccttatag ttcatgacat gtataagata gattcataag 360  
aatactccgt gaccgacctt cagtctagta caccca 396

<210> 20513  
<211> 448  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 20513

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ttcaattggc gtttataatt atacgacgag acaatagaga tgttgtgatc tgttggatat 180  
atttgaaaa caaggagtgt ttattcataa acaacttacc taaatcaatc aagaaaaatt 240  
gagtcggatt cgaattaagg tttgatgaga tcaaaactga accatagact cgatatatta 300  
accgatgaac acgatcttcc ttttatgttg ataatgtgtt ggaacatcca tgagggtatac 360  
aatgcctctn gaatttgtac cgtttgacac cctataagta atataaanatc tatatggggt 420  
attacttggg atttgattaa tataaaat 448

<210> 20514  
<211> 391  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 20514

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gtcaataaag cattcaatgc atcatttaat ctccctcgcc aactgggtcat ttggacaaga 120  
ttaagcatct ttcttttctc tctttcttgt acaccaaatc ttgtggcaga tcgaggacat 180

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gtttcctttg tgtagaaaa gatattgata ttctttcttg ttcacatgca tgtcttttga 240
gaggtagtan gtgatacttt tcattgtcct ttctgtctgc tctttctcat gaagatccca 300
agaatataac atattgtata ctntataaat aatcctgcat ttagcataga atatgttnta 360
aacttaagtn tggtaaataa tgatatataa t                                     391
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tatcgtaatt tattacacca attattttga ggcaatgatt gattctttca ggagtctcta	60
ctattatcaa ttacgaggtg atatgatcga ttacttctct tttaaaagtg tttcagaagt	120
gattaagaac actttaattg attacatcaa gaatctaatc gatttcattg ttcttgatag	180
ctttgcagtt tttgggaaga atactttatt caattgaaat gataatataa ttgatcacat	240
tgtatattta attgattaaa gatgggttata actgttttct ctataaatag ccaccttggtg	300
ttctcacttc taataagttc taacaacttt tgaatgagct agaattacga gctgataata	360
atgatacaaa aaaaaagaag aanaagtgct tagaaatatt gtgaatcata acttctaata	420
ttggattatg aagatcagat tatngaaaat aagtt	455

agcttatatg	ccattcggaa	taagggctcg	tgtctgtggt	ggacaacact	tagccatgac	60
agaactgaag	gtgattttgt	ctctcattct	gttgaagttt	cacttctctc	tctcattaag	120
ttactgccat	tcacctgcct	tccgtttggt	tatagaacct	ggccagggag	ttgttcttaa	180
gatgacaaga	atttaagcaa	caatgtaaca	gatgaatgat	gaaaacatgc	aggtaatggg	240
atggttgata	tagtcataag	acatcatttc	tctagctgat	gaaatgctaa	taagtttttt	300
ttttatccaa	attagataat	aatatttttt	ttttatgaaa	ggaagatatt	ctcatacttc	360

gaagttatga gacgaagatg atcaannatt atcatttgat gaaatttt

408

<210> 20517  
<211> 450  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20517

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catggttaac ccaaggacct tttttggttt ctactgcaag gaatggggaa cttgtaatga 180  
cctgaggtac gtttgttgtc gtggtcactg gtgctgaaag gctctcattn tgattgaggc 240  
aagtcgtgct cactttgtag ttctttgaat gcttaatgtc tgttgtanaa ctanggtagc 300  
atagtgtagt gtagttagt gttcttcatt ntgtttgagg tagcgtagtt aacttgtatg 360  
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atgaactntc ttctttntct atacatgtct 450

<210> 20518  
<211> 378  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20518

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cgaggattaa gagggttgca gagcgcgctg atgagcgagc gcgtaagatg aagaagcatc 120  
atggcgtaaa gttcagttgg attttcaata aagaattgct tttgtgaaat ttcagttaag 180  
acttaagaga taagagatag aggtcaacgt gagtcaacag gtttttggct ttgtgactat 240  
tttgagtctt gtttgtacgt ggcattntga gtacgaataa tgaacaatnt aacatggatt 300  
gcgtgtaatg gacattgttg gatccatggt tgttgttctg gtggatacaa aaccagtagg 360  
aactttttgt tgaacggt 378

<210> 20519  
<211> 443

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20519

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 ggggcaagta aattttcttc ccacagacc ttggatgcaa ctgtgatcgt ataccatat 180  
 cagctagatc ttgacgggta ttcaagccat ccttcgtctt gccttgaatg ttaaggagcg 240  
 tcccaatcac actgtcacia acatttttct ccacatgcat aacatcaata caatgtctaa 300  
 cgtcaatatc acaccagtac ggaagatcaa agaaaatgga tcttttcttc atatgcaact 360  
 ctgactttta tctttctttt gggctctccc aaatatagta ttcattgtgtt gaaccgctc 420  
 atataccttc tcaccagtca atg 443

<210> 20520  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20520

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 tatgccaccc ctaattctcat cacctccaat aactcagatg acacatatat cacatccatc 180  
 acagacacac cacaacatac tccttaacct gctcagttag atcctactac aaccatagaa 240  
 cctgatattc ctattgaaga acccttacia aggtctacia gagttcanac actccaagat 300  
 atctcactga ttatcactgc tacaatgtga ccaacacana taaagtcacc taccctatac 360  
 aacatcattt agacta 376

<210> 20521  
 <211> 451  
 <212> DNA  
 <213> Glycine max  
 <400> 20521

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cggttttccg gaagttgtct gtgagtactt ccggaagaca caaattattc ttccggaaga 120  
 agattcttcc ggaaactttc cgaaaaaatt atttccgga cttttctggg agaaccttct 180  
 tccggaagaa taattgctga agggcagttt cgccacttca ctgtttgctg ggtgccccag 240  
 caataatgct ggggtgcacgt agcaactccc tactttgttc tgtcaattgg taatacattc 300  
 tctattcttt tctgtttctca caacgggtcg tggacttccct ctgctggctg ttgtgtgtcc 360  
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 tctaataagg ttttctttgg gttaatacaa t 451

<210> 20522  
 <211> 345  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20522

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 ttatttgact atcatcttta ttgtgaataa atgccaaaca agactgttta tcatcgaact 180  
 catagagtac cctggcgagg tgtaagtcca ctgtgacgcc aggaaagacg aatgacattt 240  
 caggaatngg ataataat ccagtaagat cataacacgt gtcaaataca ttgtgcgagg 300  
 nggcagtggg atagttggac aaacgctgct gaaatactga acgga 345

<210> 20523  
 <211> 342  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20523

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 aatgatgagt cctgagggag agccagttca ctaccttttt gatgaaccaa taattcttat 180  
 acctgagtgt gatggagtaa ggatattgtc caatactaca atggaatttc tacagcgggt 240  
 gcctgattcc accgtttcaa tcttcacaat tggaagtaca tcacctgctg ctttactata 300



tgatgccttg gatcattntg atagacgaag tgccaaggta ga

342

<210> 20524  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20524

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cactcaacgc ttggcccctc taccactata gattgtcttt atttttcata agtgtgactc 120  
ttgatctagt ttcaatttct ccatgattaa aggcatttct ttatgttatt gttgtttctt 180  
tcattttctt tgttgatagg cttcaaaaag gaacacaatg acctagtgtc ttgaccaggt 240  
tgatcactgg tcagattttt aaaactatgg ttttaggttt' tggtttgga taaaaggaga 300  
aaatttctcc tattggatca tactcaaggg tcactaaaga gttcacagga aagtctttcc 360  
atcacaaaac aaggctataa catgcatatn ttaacctatt taatttatta agacccaatg 420  
taaaactcat acccatgt gctataatac ta 452

<210> 20525  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20525

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ggcgggctgc agcaccggct ccgcttcct aactgtactg gaggcggtg cggtggctnt 120  
atcctctatg gttctctgga gttttaacat gacctccgag atggaagcca tttgatcttt 180  
caaggccgat agatcggcct tcctctgttc ctgcaagccc tcttcattat ccatttttct 240  
ggatcgagtg ttataggggt gccttgggtg tttcttagtt atgatgaaac tcctaaagaa 300  
ataaacaacg gtgagtatgc caccaaaaca tgagtatgca aatggatgat cggagcactt 360  
ggatccacc caagattntt agataacgta atgagt 396

<210> 20526  
<211> 434

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20526

taactcatcc aaacatggca agttcaacat gctttcaact tatttcttca caaataacta 60  
 tcatgaagca gaaacctagc aaaactaccc atcatatctc ccaaaaccca ataccacga 120  
 aaatcaagtg agaaagaagt ctacccaaac ctgaaatttc gaggtccac acatagagat 180  
 gcgcttcattg actccgaaaa tgcttttctt tcgcgatttg gagcagaaat gggcaccaaa 240  
 ggttggagct ttaatggagt ttcaatggag gatgaagaag aagacaatgg caacgtgaga 300  
 gagagagaaa agagctttct gaaattttct ttggctgagt gaggagagag aaaacagctc 360  
 tctggttaaa aagaanagct ttttctcttt tctattattn taatttaacg tatgccacat 420  
 gtctccattt gagt 434

<210> 20527  
 <211> 300  
 <212> DNA  
 <213> Glycine max  
 <400> 20527

agctttgttc gaggtactta cccgttgaag atcgaagaac gatgaagaac gaatgatcaa 60  
 cgtcgaagaa cgggtgaaat ctttgcgaca tttctcacgg aaaacgttac ggatacgttt 120  
 cggaagcgcc tcggcttaga gtttcttcac ggaaacaatt tttccaagca cattcgatag 180  
 agaaagaagt gcctaatttg ctgactcctt ctttcttgcc ttctcccct atttatagca 240  
 caatagggga ggtggttgcc tgccagctcg ccagggcgag ctgagctcg ccagggcgagc 300

<210> 20528  
 <211> 296  
 <212> DNA  
 <213> Glycine max  
 <400> 20528

tcatgatgaa tcaagattga ttcaaagagt tttgatgatt tcaaagatga tgacaaagag 60  
 ctcaatagtc aagagcactt catgataaaa aagatgatga tctcaagaat caaaaaatga 120  
 gttcacgatt gaatcaagaa cacttcaagg ttcaaatgga aatttgattt ccagaatcaa 180

gaattaagtt tcaagattca agttccaaga atcaatatca agattcaaga atcaagagaa 240  
gacttaatca agatacgtat taaatagctt cttcaaaaac tgagtagcac atgaat 296

<210> 20529  
<211> 399  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20529

agcttcttat ccaaagctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60  
atggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120  
aatcactatt aaaggacctc attgaagctc anagatccaa cctccataga aacccacaa 180  
gcaagctttc atcataacca ctctatttcc cctaccagag atatccaact tggtcactgc 240  
acttcccatg tacatacaca acatacatca tcacaatgac attatcaaca tcaacaacat 300  
ctcatctcaa tgtcattatc atcatcaaca tgatcccatc tcaatgtcat tctcaacatc 360  
aacatcatct catctcaatg acattatcaa catcaacat 399

<210> 20530  
<211> 375  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20530

tgcattgattc acatttctcn cctttgtcaa gcanattctt tctgatatca tcaaaacctg 60  
catgattttac acaattccca gtaatttata caagtttgta tgttcaagct gtcagcacca 120  
gcgaattcaa cctagaaatc aagaatagtg gttatgttgc ttaaggcttg gatagttaca 180  
atttgtgttt gcttatgctc aatgatcttg aataacaaaa ttcaagagaa cttaagactt 240  
attntgattc acaaattccag ccacaactca gcaccacaac tcaacttcat cataggaatc 300  
atgtaggaaa cttagaatac aaaaaaaga gttcaacaac aagactactt ctaggaatcg 360  
atttagaaca tgtaa 375

<210> 20531  
<211> 410  
<212> DNA

<213> Glycine max  
 <223> unsure at all n locations  
 <400> 20531

agcttgtaag catgtaaccc accatcttct catagtagaa cacaagtaat gtgtctacta 60  
 ttattgctat cattntcctt tccatcattg ggggcactac ttgagatacc agaacccttc 120  
 acctttgggc atatactttg aaagattcat gctctctctt acacatgttc tatagctnca 180  
 ttctatccaa aaccatatca gaattgtact aatattgcct atcgaaggca accataaggt 240  
 cttccagga atggaccccg gaagattcca gaataatata ccatgtgatg gctgccaat 300  
 aagactttcc tacaagatat gcatcaacaa ttttcatctt ttgcgtatgc ccccattttc 360  
 ctacaatata tctatacgtg attcttgagg ccagaatccc tttgtactta 410

<210> 20532  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<400> 20532  
 tcagtgtcac aagtttccga ccacgaccat ggtggagttc aacacaattg tagtgtgttt 60  
 tctggctgat atcttttagga agctataaat aggggttggt ttctgtatct ttgaaatctt 120  
 ttacctaatt acgaatttaa gagttttgaa gcgtggatac caccatgagg atgaattatg 180  
 gtcatcattc ctaccttgcc ggtatgtcta tgctaatttc atatatgttt ttgagttgtg 240  
 ctttgatcat gagcgaccag tcaccatagt ccaaggggta tgatgtaact atccaatggg 300  
 atccctttct ctgttcttaa tgaaattcct caatctttta tgtaaactaa ttctcttctt 360  
 tattcttatt gtttaattgc gaattagtca atcctaagct taattgaatg tattgtggtg 420  
 atgatcttgt atgtcgcgta gacctatgta gagaatgt 458

<210> 20533  
 <211> 279  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20533

cgcgatatgc gaggatgata ttccgagtac tttggatttg gtacgaccat gccctcttga 60

ttccactggg aaattggcga gtggaggaac gccccgcac ttacgcaacg agcataatgt 120  
 aaacctttac gagtttaaaa gctctatagt tgggcctagg ctttagaggt nttccttttg 180  
 taaggctttg tgtcttttgt ctttgaattt ataatacaaa gatctntctt catctgttcc 240  
 tggctcttac ccattctcat tcatttgcac gggtacttc 279

<210> 20534  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20534

tctanactnt gtacaagaat gaagctctga taccacttgt tagtctagtg gcctcagata 60  
 tcttaagaag ggggggttga attaagatat tccaaacttt tctcctaatt aaaaatctat 120  
 cttacttttt acttaagtta tgaattccct taatgacaat cttcttaaatt attaatcaa 180  
 atgaagcaac ttgaattatg aatataaagc aataataaat aaaggagatt aagggaagag 240  
 aaaatgcaaa ctcaagtttta tactgggttcg gccacaccct tgtgcctacg tccagtcccc 300  
 aagcaaccgc cttgagagtt ccactaactt gtaaattcct ttacaagtt ctaaacacac 360  
 aangacaacc cttcctttgt gtttagagat tctntacaac aagagactca cagtctctta 420  
 atcccttaga gaatg 435

<210> 20535  
 <211> 366  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20535

caagcttatc ctgatcgat gcatagctn atcagggcta agcggaccct atagtcgcca 60  
 agcgtaattc cttacgacca taactaaggt cgataaagct aagcgccaat catggcagct 120  
 taacgaaatt cattgcggaa atatcagcgc taaagagaga acctctcact aagcgcatgc 180  
 tcctctgtat ttaagatgca tcaattaagc taagctggcc aaaaccaggc ttagcgagag 240  
 ttgcagcttt tctaattctgc aaaccttgct aagcggactt actcgcatgc taagccgagt 300  
 atctattcaa aaaaataaaa ataaaatata tttgaattga aacgtcagct aagcgcatgt 360

tcgcta

366

<210> 20536  
<211> 456  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20536

tccnncgaaa agataatggt ttaggggaat aacacagcca tattcttgtc tttatgaaac 60  
acctaaatta gtgttaccta tgagctgcca tatttgatat tatcccagtt tccgaagctg 120  
nttgttccat acctcctctg tgattgttca gcatgatgag aatttgcaag gcttgtctaa 180  
tcatgaccac acttgaatgt aatctccatt atccttctaa tggcttttga caagtctaac 240  
cgctgctgag ggttgctttc agtgcaagca gcaccaatgt ggaggaagtg ctccatctca 300  
gcaagccaat tcctagagcc tgcaatttta ggatcaagca cttctgattc ctttccctca 360  
gagattgcag ttttcacca ttgcaccaca tcagccctac cttttccatt gctgacatac 420  
tgagaaagga acctcgctgc aatatctcaa tatgac 456

<210> 20537  
<211> 384  
<212> DNA  
<213> Glycine max  
  
<400> 20537

agctttatac taaatatttt aactaaaatg ctgaatctta caaattctag cttcatctaa 60  
tcatcattaa aagttaatca gtggtgcaac tagctacccc ctgttaaaat aattgaccat 120  
gtgtatatgt tctatgtgtc ctagtatacc aaacaacagg aatggtgaaa atggatataa 180  
gagcattcct ctattgcata agagcattga ctgcagtcta tgacaatgac tttccctttg 240  
aagctataag aatttgagc ttttcaagat caaagttggg tagtgcattg agcgcagcct 300  
gtggcaatga atttcccttt caagaattca tgtgcaaata ttgataacac ataacctatg 360  
caccctacca tttagttaca atga 384

<210> 20538  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 20538

gttactccca tctctgaaag tagcagagag gaggagccac aagaagacgt tcatggactt 60  
cgccaaaaca acgatcacag cagagccctc catggagaaa ctgcaaagaa aagaaaggga 120  
acgatatcca acctgattct gaaacagagg aagagcgcgt gagagggaga agtagtaagc 180  
ggagaaaacc acgcgtcagt gggaaacagg aagagttgga cttctcatcg actaaatata 240  
tataagaaag acgaaacaca gtctctacct aacaaaaatc aaggaagcag ccaagaaacg 300  
acggcactcc aaagatagaa atcagaacca taaagaaaag ctggccatgt cacggaccga 360  
actataggaa tacctgcaaa tggccaacc 390

<210> 20539

<211> 427

<212> DNA

<213> Glycine max

<400> 20539

ttgcggattt ggacttcgcc ggcagaagga tcaattcgtt cttaaaagag gcaaatttaa 60  
tgatggcact tgtacgaatg ataaaactgg tgcatatgaa gagggtgaaa ataaaggaga 120  
aaccatgct gcgactgtca ttctacatg gccaaacttc ccaccaacc aacaatgtca 180  
ttactcagcc aataacaaac cttctcctta cccaccacc agttatccat aaaggccatc 240  
cctaaatcaa ccacaaagcc tgtctaccgc acttccaatg acgaacacca ccgttagcaa 300  
aaccaaaaac accaaccaag aatgaattt tgcagcgaga aagcctgtat aattcacccc 360  
aattacagtg acctatgctg acttgctccc atatctactt gataattcaa tgggagccat 420  
aaccta 427

<210> 20540

<211> 499

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20540

cgagctgcc ttgatgcatt gttgangcct tggacacnt tgaggcgtct acgaccgaat 60  
gccgctcgga tcttgagat cctatccagc agttctgcaa gcttggtggc ttttacaagc 120

tggactcaat ctctgtatcgt tgatgtcatt gggagtgtcc tgtgaactgg attcctacta 180  
ccacccgcat aaccgtgata taaaatcaca aggaggagtc gattcctact cccgtgtcaa 240  
accactggag aaatgcactt actatgtgat agttatcgca cggaccatcg ggattgcatg 300  
ctgggtgttt ctctctacca ttctcttgat gggctatatg ggtccctgca actcactgtt 360  
gcacttgggg atagagccag tcttgccctta cttgcaccga tgacacttat tatatgcgat 420  
gacgcgatct tgccgagcat taccaatatt actctaactt gtaaaagaca ttaagatccg 480  
cgaagtaata aatacattn 499

<210> 20541  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20541

tcanatgtca atagcaaagt actgattttg tcaaattagt tatttatatc tgccgcatga 60  
gaacaattaa taatttccat tntttttgtc tctagtata ctgattactt actgtgtgta 120  
atataaatta tgtaaaatta agtctatgta aaattacgat attattaata tttttaggac 180  
attaattaca aaattaaaaa aatatattta ttatgaaaat tataggaaag tataaaaaag 240  
ttataaacag cataatttat gcattttaat aaaaatattt atttttttaa ttctgtaacc 300  
aatgtccttg aaggaattga ttagtatcgg cttaaaatca agttagtaaa cactcatcta 360  
aacacattat caacttttct tgatgataaa agtctatttt ggatgtgaat 410

<210> 20542  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 20542

tgttgcaagc ttgttattgg ttactctaaa ttatcatttc attaccgtac ataaagtaaa 60  
catatttaat aaaaacgtgt taaataaaat ctcatatat tgtaagcgtt tgagacaacc 120  
agtagttgca atatttaaaa ggatattgaa tcttatttga tattagttaa ataaataagc 180  
tttacaatga gcttattaag ttaacattca tcatacataa atgttattag aatacttaaa 240  
aattataaaa agtgtattaa tcagatttat aagattaatc aaacatgtgc cattttcaac 300



gcgagtgcta aaatatatga tggaaaatgg atcctcttca agtctccatg ttctacctct 360  
gcaacagga 369

<210> 20543  
<211> 422  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20543

ntctctctta tataatggaa ttgcaagac aatgactgct ttttcaaggt ntgaatagca 60  
ttccgtggac aagtaaggat aaaaatttaa atcatcanat tcaacattgc ttgatagagg 120  
tttgtcttga agtttatttt taaccgcacg gttctcatgc aaccccaaag tttctcctt 180  
cgatccaaca tggaaagctt tcggagtttt ggaaccatct agttcactca aagactnttt 240  
ttgcacgaa acactctgcc ttgatttgtt aaaatcatac aacacaaatt ctgtcaccat 300  
agagttgtca aattctttgt cttctagttc agaacataaa ttacaggata ctagcatctg 360  
tgctactatt gagggatctt tatcaaaatc atgggatccc aaccattga cattgctctt 420  
ct 422

<210> 20544  
<211> 338  
<212> DNA  
<213> Glycine max  
  
<400> 20544

ggcaattcac tcgtcccggg atctctaage acctgcatgc tgcacttttc aatatgatga 60  
ggagttagta ttgcaacata aaaatgaacg attaaataga tatagtagaa aacctcaagt 120  
cacatgtatg gtcataggag cataatatc tagagagcaa actatttttg gaaacaaaac 180  
taacctaaag ttatttccac ataaccgaaa taaatggagg attgtgaacc agaaaaacat 240  
attggaaaat tggttacttg gttaaaccac cttatataca agcctaattg atgctgatac 300  
cactattgac catactatct gccatgttca atatattg 338

<210> 20545  
<211> 399  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20545

ccctcgaaga ggatgctnta atggaggaaa agaaagagag aagtgggagc acgaaattga 60  
aggaataaaa gagggagaga agtggaactt tgaagtgtgt ctcataagac ttccattcat 120  
caaagttaca acaagtgtta cacatgcttc tatttataga ctacgtagct tccttgagaa 180  
gctntcttaa gaaaacttcc ttgagaagct tctttgagaa aacttccttg agaagctaga 240  
gcttagctac atacacccat ctaaaaacta agctcacctc cttgagaagc ttccttgaga 300  
agctagagct tagctacaca cacccatcta aaaactaagc tcacctcctt gacaaaatac 360  
atgaaaatac gaaaaaagt ccctactaca tagactact 399

<210> 20546

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20546

agcttctcct tccttttcct ataaataggg gaaggaggga agaacaaaaa tgttcaaccc 60  
tcctagtatc tgagattcac ttaaaattag tgagaaaaat tgtttccgtg aagaaaatcc 120  
aagccgaggc acttccgtaa cgcttctgtg acgtttccgt ggggtgatttt gcaaagattt 180  
tcaaccgttc ttcgtcgttc ttcattcggt ctttgcgtt cttcgggtgt caaccggtaa 240  
gttctgaaa tcgaactttt caattcattc tatgtaccct tagtggtcct cattgggtttc 300  
gtgtgctttt tatttcattt catttacttt ccatacgccc ttttgacgtg ctttagtcat 360  
ttatttaagt cattttctcg cctaataaca aataaagtaa att 403

<210> 20547

<211> 383

<212> DNA

<213> Glycine max

<400> 20547

acatacacag ccacacaccc acacacacac agagagaaac acacacacac actgaaacac 60  
acacgcacac acagaaacac acacgcacac acagacacag gcacagaccc acacacacac 120

[illegible]

<400>      20548

<210>	20549
<211>	411
<212>	DNA
<213>	Glycine max

ntacttctac aattgtaagt cacttgcaat taatatcttt aattatntat gtttattggg	60
tggttgactg aacaaataaa tgtgttctgt ataggattca ttggaagagc aagcgtcaca	120
gggttccttt gtcccccatg gacgtcagga tatctggact gctgccattg ggcgaccaga	180
acaccctggt cgtgtgcgta ctgttgacc cagtgtgaca atcaagtaat actttggaat	240
agctccacga acctcctaaa cttcttcctt tatggctccc aaagaactag agcagttgac	300
tcaacagatc agggactagt tggaggagtt gatcacagan naagtgactc aacagctgat	360
gttatccttc agtcagatgc agtcccagct tcagtcatag atgcaatcac a	411

<210> 20550  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20550

agcttttttac aacttggtgt aatcaattac cacaactctg taatcgatta aaacaaagag 60  
 ttgttgccctc tgaagaaatt nttctaactt agaaactttt tcttcacaca aaccatgatg 120  
 atgcatgatg tctgatgcaa tgcaaatac aaatgtacta agatgtcaca accaagttaa 180  
 caaccaatac aaatgccact caagggagtt gggcatgtaa aagccaaaac ttcttcaaaa 240  
 cttgttcaaaa cttttccttg agcttcagct ntagccttta agttgtcacc atgttgctcc 300  
 ccttatctct aacaatagtt tgtcataatt aaaaccaacg atgtggattt cataatgtta 360  
 acccacaat ttagagaact agagtagtag tctc 394

<210> 20551  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20551

ttctaaagtt ntatggtttt ctaaacttg aaaattgtgc tattcatctt ttcattcact 60  
 tctccctttg ccaaaaagaa ttcgccaagg actaaccacc tgaattcttt ttgtgtctct 120  
 cttctccctt ttccaaaaaa acaaaggact aactgcctga attcttttgt gtctcccttc 180  
 ttcttgtca aagaattcaa aatgacacag tctgagaatt cttttgattc ttccctttcc 240  
 catatacaa agtgttcaa ggactaaccg cctgagaatt cttntgtatc cccattcaca 300  
 aagtatcaa ggtttaaccg cctgagatct ttgtcttaac acattgaagg gtacatcctt 360  
 tgttgtacaa agagagggtg catctactt 389

<210> 20552  
 <211> 350  
 <212> DNA  
 <213> Glycine max  
  
 <400> 20552

agctttcttca tcagaccact tccagtgtgc tggaactact tcacatggac ttgatggggc 60  
 ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tggtgctgtg gatgatttct 120  
 ccagatttac ctgggtcaac tttatcagag aaaaatcaga cacctttgaa gtattcaagg 180  
 agttgagtct aagacttcta agagaaaaag actgtgtcct caagagaatc aggagtgacc 240  
 atggcagata gtttgaaaac agcaggttta ctgaattctg cacatctgaa ggcattcactc 300  
 atgagttctc tgcagccatt acaccacaac agaatggcat agttgagagg 350

<210> 20553  
 <211> 425  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20553

tggactatat cccaccatat gataccttgt gcatgtaatc tatgattcgc tatctatccg 60  
 tacaataatg tcgttcacac aaatatggga gctatggaaa gatattcact tagtatatga 120  
 caaacaatta atccatttat tttgaaactt ccacggcacc aggagatgag atttgaaaat 180  
 ttgtgccaat gacaatgagt cacctttcaa ccataattga tccggacctt tgccttgtgc 240  
 tatttcaata gctaaaaatc caacttgcaa ctcagcatga aaggcaattg aaatatccaa 300  
 agagtgagag aaacaacca aaatagcacc cctagaatta cgaataattc cccactagc 360  
 tgaaggcccc agacaancta ttgttgacc atcaatgttg cacttaatcc atcccatttg 420  
 agtag 425

<210> 20554  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20554

agcttgatg attatggggg acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60  
 gcacaacaag ttttccacat ccgcaaactg cgcataaacc caccattccc ttgtgcccac 120  
 ctccaactga gctcacgtac tcccacgtag cccatatacct cgtttctctc aacaccgggt 180  
 ccccatcaat ccttccaagc ttccccaaca tccaggtaat tcaacatcca aatcatcaca 240

aactaacaaa ccaaggcaaa cagggcaaag gaagaaaact cttgccaaaa ctcaaaccaa 300  
aatcatagct ttttctcact taaagacccc agtaacattt ctttcgttcc aatttcgtaa 360  
cccgtggatc gactcanaaa gttactggaa gctctatata taacctaca 409

<210> 20555  
<211> 441  
<212> DNA  
<213> Glycine max

<400> 20555

tgagaacata gtttcaaaac agtaacatct ccacgcttca taacatcagc acgataagcg 60  
tagaaacttg gtgacaactt ttgcgataaa agccaaatac ttttactgtt tttttttctt 120  
tttgctgttt gaatctgttg aaattttttc tatcaacagt attcaaaact tactcatgtc 180  
tactgcaaaa aatgtttctc gcaagctgtt tgctcgaaaa ccccaaaaga ctggccgaaa 240  
atgtgttgca agctcttaat gaaatggatc acataaccgt accaacacaa caaatcctc 300  
tatcaacgca tcattttcca cagccactgg acaatgtcaa tattgtcatc ggtcataggg 360  
aaggatgcgg acttcattga cgaagaaggc aacacgacgc ttgggagttc caccgcctcc 420  
ggctcaacc c tgtggtgaaa c 441

<210> 20556  
<211> 338  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20556

agcttatgga tggaatactt acttgttggt gatgaacaaa agcgcaaaac ggaatcaaaa 60  
atgcgaaaaa ggatgaccct agggctgcaa attcgtcaat cccgtgggta tggcttttga 120  
aagcggngaa aagaggtttt tgaatgtaaa aacgcccccc ctttcgtcat tnttataatt 180  
tggtgcaggg gtggcttcgc ccagcgagcc cagctcgccc aggcgagcta acctgcactt 240  
gnntgtntt gcttactcgt gttgttgatt tgggaggaaa ttaaccattt cccctccctt 300  
ctcatgaaat aacatttcgc ctaacttgga cttactta 338

<210> 20557

<211> 434  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20557

aataactaagc ttctatccag gctcatcttg gtggtgaagc tccttcttcc attgtttatt 60  
 ccctagtgga tggcacctcc tctcaacctct tctcctttgt ctcccgctgc atctccatgg 120  
 tggaaaatca ccattaaagg acctcattga agctcaaaga tccagcctcc atagaagccc 180  
 cacaagcaag cttccattaa gtgataatca gagcacaaga gcttcaagta ggtgctcctt 240  
 aaacctccat taatttttgg ctttaccttc tcttccattg ttgtttcttc attnttcttc 300  
 catgtatctc ctcacatgtc ttgtgctaaa tgttgtaaac atgattctnt agagtttcca 360  
 ccgattaaac ttgctataga agctagaatt gattntctat ggttcaaatt tcttgttctt 420  
 gttcttgaac catg 434

<210> 20558  
 <211> 358  
 <212> DNA  
 <213> Glycine max  
  
 <400> 20558

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 aagctgagtt actagggttaa ccaaggcatc aagtttttcc tcaagcttta tattctcagc 180  
 agatgaagat gaatccatgg ccacctcatg gactcctcta aagacaatag catcatttct 240  
 tgcactgaat tgtgcgagtt ggaaccatct tctcatcaaa ttcttacctc agcggagtcg 300  
 tatcaccaaa gctccccatt gaagcatcat catactctct ccatgtacta agccctat 358

<210> 20559  
 <211> 452  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20559

ccacagcaac acanaatcta ggtgtccaaa tctcttcaat tcaatggctt ttctaggtgt 60

gagaggtgaa atntagaatg aggtaaatth gaagcanact ctcacctcac acaagtccat 120  
 aacatcaatc taaacttgct caaactgaat ttacaccaa aattccacca aatcaaaatt 180  
 tgactcttca acaccaatt ttgccctaga aatggctctt gggtcacttt ggtcatttgt 240  
 ttttctctct agctcagcct aacctttctc acatgtccta gatgacattt caagctagta 300  
 ttaactcact ttaacctcca ttaccacaa aattcagact tagccttcca actctcagag 360  
 tctcacctg tctccactca taacatcaca ttctcactgt ctaaccctag gttagttcta 420  
 cccttcatct ctaacgagtt tccatcagca at 452

<210> 20560  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 20560

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 gtaagatggt acattggatt atgatgcaca catgttctta tgtcatgtta acccagacca 120  
 tgatgactat atgcagccag acattctaga gggtctagtg gcatttgatc cccctcgaca 180  
 tgcagtggta agattatttg tgtatcta atgttcgatgaa ttgctatcta ttctaaatat 240  
 tgtaataaat gtttcttatg actgtcacat gatgattaca aaggctatga ggcgatcgca 300  
 gatagggttg agtgtgtgct caatcttatg atggctactg caaggacatg attacatgat 360  
 atcttgcattg attgcctgat gatcgctagg 390

<210> 20561  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20561

agctttagat caaggtaa at caaaatctag gtatccaaaa cccatcaatn tagtggatnt 60  
 tcaagggtta agaagtga at atgagaattg gataattctg gggtaaactc tcatttcaat 120  
 caagtctata acattgattt agacttgctc aaactggtn taagggtgaaa accccagccc 180  
 ttcaaaattg gccctcaac acccaattta cctagaaat ggctcttttc tttcacactt 240  
 gtcattcctt tttctcattt gctctacca agctttccta caagtccata ttgacattct 300



aaactangat caactcactn tagactccaa tntccactaa ccccaaattt ggcttttcan 360  
accctcaaaa tctcacactg ttccactcat atcactacca ttc 403

<210> 20562  
<211> 448  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20562

agctttgaaa cactctntgc tactggtaat cgattacaat aaactggtaa ttgattacca 60  
gagagtaaaaa actcttttgggt aaaagggtnt gtgaaaaatt catgtgctac tcaatgtttt 120  
gaaaaacttt tcagtaactta tcttgattga gtcttttctt gattcttgaa tcttgagtct 180  
taaactcttg tcttgattat tcttgattct tgattcttga aaacttgaaa cttgaaattt 240  
ctcttggtct tgactcaatc ttgaaatcat tctcatgggc tttgtgttta caatgtttta 300  
ttaactatat ttagttttta ttntgaatat gtgtgattaa ttggattntg tttgaattga 360  
ttaatgcttg aattgcttat gttttattga tattagattc tgttaaaaaa atatatctat 420  
ataaaaaatg ttttgacatg ttaatata 448

<210> 20563  
<211> 400  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20563

agcttttatag cagatttttag taatgaccca ctaacctaga attaaaataa cttaatgcc 60  
ttaacctang gaattaaaaa aacttaatgg ctgagtgtaa ctgaaattgt ggcaacccaa 120  
agtcaccccc aacagccaac aagtcagcca ctcatgtgtc tcccaaaagg ctgatgccta 180  
agttgccaat tgggccctta ttacaacttg aactaaacct aactaaagcc ctttttagttg 240  
attaacccaa aacatatttt tggtcagcca actttacaag gattggggcca ttatttagac 300  
aaactaaaca ctctaaaatt gaaacaaagt ggtgtcattt agtccttctc catttgggcc 360  
atgatacaac tcacaacctt ggactttttc tcttgaactt 400

<210> 20564  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<400> 20564

tctatataag ctgaaccatt ttatcaataa acacatgttg agttttattc agaaaattag 60  
 aagttatcgc ttttatctta atgagagtga ttctcctaaa ttcttgagtg attcaagaac 120  
 accctggctg tatcaaaagg actttcacaa cctttggggg gtggccttgc tggaaaaagt 180  
 gattcttttc ttctatcat ctccaccctt ggtctttcaa ccacaatttc agaaaatcca 240  
 cctctgccaa aattatctcg tgacctaaact ccatttcaac actcaa 286

<210> 20565  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<400> 20565

agcttgtaca ataatcgggtg agagtgtgat cttaaactat gagtgaacga ctagctttga 60  
 gtaatagtct ttgcatcaat ctctgaattt tagaatgaaa tgtatgaatg aggacatgat 120  
 gaaggccatg atttgtgtata tacaagtcaa ttgacccaaa agcttacctt gaattataat 180  
 tgtatccttt gcaccctttg tgagctaaat tacattttca aaattgaacc ctgaacttga 240  
 atgaatatct ccagatacct tgtttagatt ctacgagagc agatagttca aggaaaaata 300  
 ccc 303

<210> 20566  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20566

ntgtgtaatt gattacactg atttggtaat tgatttccat tgattgtttc tgaataaatc 60  
 aaaagatgta actcttcaaa tgggttttgg ctttttcaaa ttgggtttta gtttttctaa 120  
 aagtcataac tcttctaaat ggttctcttg accaaacatg aagagtctat aaaagcaagg 180  
 ctttgtttgg catttttcaa tcaatcaatc aatctatcta tctatccaat ctttgaatct 240

ctttgaactt cttcttcttc ttcattgtgc caaaaacttt ttccaaagtt ttctgggttt 300  
 ctaaaccttg aaaacttgtc ctattcattg ttttcatcta ttcttccttt gccaaanaga 360  
 attcgccaag gactaacgc ctgaattttt ttgtgtctct ct 402

<210> 20567  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<400> 20567

tgacaattcc tgtctcttct ttaaactcc aaattccaaa tacgaatcta ttttatcatc 60  
 tcataccaag cacgaagaat cactctccac ttatcttgct agactatcca cacgtgtggt 120  
 aacatgtatc ctcaccatag atccacgttc tacacaagcc atgtgttgcg atgtatgtcc 180  
 aaacacagca tgacgcatct ttcccttagt ccctaattta cagacactca cttttcttga 240  
 ttaacaaaat actctacttt agtccggctt tattcaacat ttttctta 288

<210> 20568  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 20568

tgttgcacat agttatcaaa gtgcgtgatg agtggttcat attgagcttg agttctgttg 60  
 tagcctgcat tgccaatgtg atctgatttc ttcccgattt gattgtgaac aacgagtaat 120  
 gcagatgcat ggccggcgag ttcggtcaaa tggagcacgt aaatgcatat tggagagttc 180  
 tttgttgggt tagaggcgtc aaggagggtta atcattggtg gcacatttct agggctgtgg 240  
 atgcacacca tgactctgaa ctctgtgtct gtttgagaca tttgaatata ttttcttttg 300  
 taagggatga tcccctttga tgttttagtat atagctgata tcccatgtac agttatacca 360  
 tcattagaat gttataatca ccattga 387

<210> 20569  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20569

taagctttat aagtatttaa gatctgctgg aattcgtgat tctgcgaat tntattgtct 60  
 ctcaaattga gcaaatecctt gttggactgt ntctgggaat atctctggga ttggtccaaa 120  
 gaagtccac cattgcaaaa accaattgcg aaaattgtaa attgtattgg tcttgaaata 180  
 tatcagccat gaatgcttga agcgggtatt ttggtgcaa aacaccttag tccaagcatc 240  
 aacataatcc caataggtat aacctaccgg atcaaatgga actganaatc tctttccttt 300  
 ngtcaagtcc gaaccacagt gtcttggttg aagaactttt agtatttgga ttgtggagtg 360  
 ggt 363

<210> 20570  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20570

ntctattcta attntgaaat ccatgaaggt accctaattgt ctgaagttta tgggattaag 60  
 atggtcattg accaatccct attttttgac ttaacaaaat tgcctagtga aggtgtacct 120  
 tttgaggggtg cactgattga tgaatggaaa tttgatttct ctatgcatga tgtatgccaa 180  
 ttggtttgca ccaaccaagc ggatatgacc ggaaggcttc ttgccggttc attggctttt 240  
 gaaagtcgca tcttccatta tcttatagtt cgcattttgc ttcttagatc ttcaaaccct 300  
 gcctagggtt ctgaagaaga cctcattgtc atgtgggcct ttcataaagg tctacaaatt 360  
 gattgggcac atcttgtttag atatcgcatg cataaggcat cgcgattgaa tgccccatta 420  
 ccttatectc atct 434

<210> 20571  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20571

agcttcttcc tttgcacact cattttgctc caaatcgcca aaggaagcca ttttcggagt 60  
 cgtgaagcgc acctctacgt tgtgggactt caaatttcaa gtttgggtag acttctttct 120  
 cacataattt cgtgggtatt ggggtgttgg gagatatgat gtgtagtttt actaggttta 180

tgccttatgg tagttatttg tgaaggaatt tgttgaaagc atgctaaaact tgtcatgttt 240  
 ggtatgagtc aagcttacct attctgtttt aagggtttat gatgatgctt tgtgatgttt 300  
 gtgtgctaaa attgctgatg gaaaattgat agagatgaan ggtagagtta acctanggtt 360  
 aaaaaagtga gaatgtagt atagtgtgg gaaaatgtga tgc 403

<210> 20572  
 <211> 456  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20572

tcaagaaaaa gatggcctca gcaaattcct tatttccaga ttggtattct atcaatagac 60  
 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120  
 aggcaataga tctaaatata tgggaagcca ttgaaatagg gccttatata cccaccacag 180  
 tagaaagagt ttcaatagat ggtagttcat caagtgaag cataaccata gaaaaaccta 240  
 gagatagatg gtctgaagag gatagaaaac gagtacaata caacctanaa gccaaaaaca 300  
 taataacatc tgccctagga atggatgaat atttcagagt ttcaaattgc aagagtgtta 360  
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatgtt aaaagatcta 420  
 ggataaatgc actaactcat gagtatgaat tatttta 456

<210> 20573  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20573

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 ttatctatcc acaccctct attaactaaa ttaacttct taaaaataat tacggatgaa 120  
 aataacgcaa caaatattca aacatcaaac ataattacta atagtatata gatatatata 180  
 tatcagggtg ttacaactct cccacccttt tagaaatttc gtctcgaaa tttaccttac 240  
 tcaaacaagg atgggtgagc ttctcacatc tgactntcta attcccatgt ggcattctct 300  
 cctgatgcac ctcccagat caccttgacc aacagaatct ctttccctct taagtgtttt 360

ggttgcctat cctcgatcct canatgcaat gtttcatatg tc

402

<210> 20574  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20574

caaagtaaatt caacattcaa acagcacata ttactacagc caagaaaaca gggcaaaggc 60  
agaatactct gcccaaaaca ccaacaaaaa tcacagcttt tctcacttaa agaccccagt 120  
aacaattcct tcgatccaat tcgttaaccg ttggatcgac tccaaaattt tactggaagt 180  
ctatagtaca taagcctaca ttntgaccgt tgggatctac tagcaaakat ccagaactca 240  
ttctgcacta ctctttccac agccaaccac acacaagcat ttttctgcac aaagccaaaa 300  
tcctgctgca cctattntga cagcaaaatt ctgcataagt gcagatttcg aaaatcaccc 360  
ttcctctcat ccaatcttgc ccaaatcaaa tcctacaagt cccaaatcat gtatcaatca 420  
tg 422

<210> 20575  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20575

cttgcaagct ttttccaaca ttcattagtc caatacacac tcaacaaata gtcacatcc 60  
atccataatt ccgatcattc atgctcaata tgatgcatgc acctgacctc aactctcata 120  
tgcaatgtgg taccatcctc aaagaaatag cctaaacgtg tccacacgac actcacactt 180  
atgaaaacta ggcagtaagt gtcgagggtca ccctgtcgt gcataggcaa cgtccctccc 240  
ctacggggat cagcctgagt ctcaagggag ttccaaactg agtgacatgt ccctaatac 300  
aagtattcct cctcatgaga actacaagta cttactgaca ccatttatac tatttccatg 360  
tcataataag gatgaaacat gngcaccatc 390

<210> 20576  
<211> 454

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20576

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 cgttgtcaac atgggcgatc aggtttgaat cttgcaattt ctgagatcat ttttttttct 120  
 tctttgaagg taaatctgat gaactggggt tgttaatttg tgttgagaga tggtcgcaaa 180  
 taaaacaaat ggtttttcta atcccactat ttattgaaca atttctacga gattttttgt 240  
 ggtataattg gttttgttaa tatatttctt ttggaaaaat atatttacac agacccttgt 300  
 cactcaagtt tttgttcgc aggaaaaana ggatgtctgg ataaatatct ttattcgata 360  
 tatataaact gacataatta taatcattag acaagtgaat aatgtaccag tgacagtatg 420  
 tatgatataa attacttgct cccatgggtca ttgc 454

<210> 20577  
 <211> 345  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20577

agctttacta atggatagta agaaccataa atacctagcc ccaccagtag gttacaaaat 60  
 atttataaag tataaaccgt acctatttaa agcctatgaa gagagagagt cacacagttt 120  
 tcccatcaca aggtcatggt aaaactcaac atgaaaagat acattcccta agttgatttg 180  
 tgctctcttt taaactgact actaaattga gagggacttt taaattactg aactattctt 240  
 caattaacat taataaagga tccttggttn cttttagca gggtcctctt gctgctccgg 300  
 ttcttcaaca cctgacanaa gcagatttaa gcaagatgta ctttg 345

<210> 20578  
 <211> 452  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20578

tcaatcggca tactccacac aaagattntg atgggattat tatacagcat actccacaca 60

aacagattgt gaagacaaaa attgngcaag tttctgcaga tcgaatgtta tgagctgata 120  
 ggaccatttt atctggctta gtgagagagg tcttatacat tataaccacaa ttntaaaaca 180  
 ataatcacag gaaatagtaa gttataatat aaaaagaata attttttcag taacatctgg 240  
 aaattntgtt ttggctagtt ggaattctga tggcagattg aaaacaaggc tctcttccaa 300  
 ggtcttctga accttcattc caaatntttt aacctttatc attnntattt ttgttggtgc 360  
 aatntgngga tttctctgtc aatccaagct atccatagtc tccaaactta ttgattagca 420  
 gtgggtaaca cattggttct gtttctcaag tg 452

<210> 20579  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20579

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 ccatccatgt tggttaagcac cagggtcct cgggagaaag ccctcttcac aacaaaaggc 120  
 ccttcgtagt tcggggccca tttccctcgg tggtccttga cagcatggga cattttcttt 180  
 agcacaaggt ctccctcatg gaacttgccg aagcgtactt tcttgtcgaa cgcgctcttc 240  
 attctttgct ggtacaagcg cccatgactc atggccgtta agcgcttacc ctcaatgagg 300  
 gtgagctgat cgtagcgtgt ttgagccac tctgattcct ttaatccgga ttctgccaag 360  
 atccttaatg acgggacttc tacctcanat ggtaacaccg cc 402

<210> 20580  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20580

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 ataacttttc acacggatgt ccggttcggg cgcataatat gtcgagaagc tcgaaattga 120  
 acaacggaag atcttgagaa attcaaatag tcataacttt tcacacggat gtccgattca 180  
 agcttataat atatcgatac gctcgaaatt aaacatcgga aactctcgcg aaattcaa 240



ggtcataact ttccacacgg atatccgatt cgggctcata atatgtccag aagctcgaaa 300  
 ttgaactacg gaagttcttg agaaattcaa gtggctctta cttttcacac ggatgtccga 360  
 ttcaggcaca tcacatatcg agacgtcaa 390

<210> 20581  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 20581

agcttgtgag ttacaaagtc ttgaataagc aattatgtga gtatttagta ttcttgaata 60  
 agcaaattat gtgagtggc actctattct aatataaata ggggatcata ctcttgatt 120  
 tgggtgcca aatgaaataa aatctttttc ttcttccaac acagtggat cagagcttga 180  
 gttctagagt gttgagaaag aaacactttg tgagttgaga gagacatact ctgtgagttg 240  
 agagatggca agcaatggct taagtatgtt tcaattccct cgtcttacca aagagaatta 300  
 tgataattgg tgcgtcgca tgacagcctt gttaggttct caagatgcat gggagattgt 360  
 agagaa 366

<210> 20582  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20582

cttgatacca attgagaaga acatcttcaa aatcacatta ctagttagtt ntgtaattgg 60  
 ccttattata aacactagac cagaatccca tgctttcaat gtaggaccca agtctcatal 120  
 ctagcaattg gatcctacaa gagttgcttg attcattatt gccgctattg tcaactgtaga 180  
 agcactttct caccagtcac gccattacag tgttttctaaa ggtagccata taatgcttca 240  
 ttttgctatt gatacttggtt ttattatat tgactcatga tgtttacatt taaatgggtg 300  
 ttttgctcct aatttagcat tattgttatg ataataacta tacttccctt gggtgtgtct 360  
 ttatttcctt ccgtttttgc aaaaggaaat cagataagct tagttcaaca tcttagatga 420  
 taaatatata agccaactac tttc 444

<210> 20583  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20583

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 agaaaaaata gtgttcaaaa cattcagaaa gatcaaaatt aaaaaaaaaa caattgaaaa 180  
 acccagaatc gcagttcatt tccaacgaag atcaaaagca aaagggtagc tgaatcccca 240  
 aattgtaaca ccaaaagacg cttcaatttt tattttattt ttataagttt tccttcatgt 300  
 ggcaactgaa tttaaacata gggcaatttg ngaattcgca cggaagaag cagaaatcca 360  
 taagcgggtt tcgagtttct t 381

<210> 20584  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20584

taatctaatz tattcaaata atataaaatt tgtgaatatt ttctttggta tggatatccat 60  
 gcgacaatta gatgtcaact ttcacgggtc anagtatacg tgctcgattat atagaagtcc 120  
 ctatgacact tatcatgatg tgatgttttag tagagatttg attaagttac aaatcctata 180  
 tattatatat taatacatta attacattaa gtaacataaa taaattgcat taattacatt 240  
 aatttatgga aattaattat catttttaatz taattacatt aattaataat ataaaatttg 300  
 tgaatacctt ttgcaatzgt actcttcaag ggcattggat agaagactcc aagtatattg 360  
 agtcagagat gcaagagaaa gtcctanggt tctcatgaat cttggttatt a 411

<210> 20585  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 20585

taagcttttg aggggtatttg tgggcaaagt tcgcattacg tcataatcag atcggactaa 60

caatgtctgt gcttaatttg gactcacaat ttcaaacca taccctgtgt tttattgaga 120  
 aaattcgagt tgggccagct agtccaaccc attgtgtcac ctttactcta gagtatgcta 180  
 gttttactta tgaaatgata aatatattta tgtttgatcc ttcattattca aattcggtcc 240  
 ttgggagggtt caaatatgag tgtaaacaaa acttgttgat tataatactt ggattagcga 300  
 agactcagtc ggcattcatag tcctatatgt caattcacca gcatgtaatt atgacactct 360  
 ctatccta 368

<210> 20586  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20586

tgtcatctct attaagtcct taattnttgt ttgatctgtt tngagtgtga gatacaattg 60  
 atttctgatt tctgaacggc aatntataag agaagggtata tcgcatctt tcaaaggatt 120  
 gcaggcacat atattgaaaa ctgttctcag ctctgcatta cttctgatgg tgaaggagaa 180  
 gattgcaaag tccacatgga ttctaactct cgtgattgga agatacctgt ctgtgaattc 240  
 ccccaaattg aaggcagttt gaatgtgtga ttattatata ttctttaaaa ataaaattca 300  
 tcaaagaatg tgctataatt gtctgtctgc tatggaggat aat 343

<210> 20587  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20587

agcttgaaga tagagacttc tcaagctatn tatcttctct ctgagagagg cttactcaag 60  
 cttgaggata gaaacttctc aagctattta tcttctctct cagagagggt ctctacttgg 120  
 attgactcac tctacggtga ctactcaag cttgaggata aagacttccc aagctattta 180  
 tcttctctct tagagagggt ttttctcact ctaagaaatg gattcactct tgcttggatg 240  
 gataggaatg aaggctccta cccttattat actactccac ctccacaatg aatgggtggag 300  
 atacttgtat cctanggtgg agactaattc tctagaatgc tcccacattc tangagtctc 360

tacactcttc tactctcttc cataactt

387

<210> 20588  
<211> 407  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20588

taattaaana aattcatcta aggacttaaa cttacttata tgcaaattgt tcttcttttt 60  
tttttacatt gttttcctaa attctgggtt taattaaggc atccaaatca aatcaaatca 120  
aattctatct tttgggtataa ttacttatct atgtggatga tataatcatt gcaacaagtg 180  
taaataatcc tgtaatcaac aaagttttcc ggctcaaatt acagcaacta ttgaaaacat 240  
aatatacttt cttgggtacct tgcctattcc accaaggcat agaagaaata tactctaata 300  
tttacttgaa gaaataggct ntatggaacc taatatataa attgaatgta attaacgatg 360  
gtaactagct ttgtaccaga cttttctcaa tatatataga agacaca 407

<210> 20589  
<211> 413  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20589

agcttggtct tgattnttcc taagttctgt aacaagctta gaacaataaa cttggccttc 60  
tcttaattgt ctttgggctt ggcgaccacg atcaacaaag tactttcggc acctactata 120  
tggtgacttg accaacgctg ttattggaat gctgcgacaa tctttcaaca ctttattgac 180  
acattctgat aggttgggtg tcatgtgacc atatcgtcgt ccagatgtat cgtaagccat 240  
gctccatttt tcctttgaaa tgcgatcaat ccatcttgct atggctggac tcagttgacg 300  
aaatctttct aagttttgat caaacacatg cttgcaagga gtgtacgctg catcnaaatt 360  
tgtatcatnc aaaagtgtac gtagacattc aaactcaaat aaattaatgt ata 413

<210> 20590  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20590

tgtatatgtc atagagattn tgttttcatt gtattatttg tacttgctcg agtatgtgct 60  
agggccaccc tatgccagta tggacttcga gcatacagt actgtaacat cccaacaaaa 120  
tttctagtaa aaatagttga catttgaaag gtagttaatg ttaaagcatt ttaagtagtg 180  
gaataattat tttgtgcatg tgtgatatcc ttcaatggat aagtgtcteta gaattttaat 240  
tctaggctta agaagatgtg ttttaggcct aaaaagcctt ggacaaaaat ttgtcaacca 300  
tagtgaacca gtcaaagtaa gagaatctcc tcatcaaggg aattttttta attatatgat 360  
tntttaagct aaaaataatt ntttacgttg ataaaattat ttttaattata gttaagatta 420  
gttcaaggaa atatcttatt anttcatcaa taatt 455

<210> 20591  
<211> 370  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20591

acgccatagc agcaaactctg gcatttcact aaaaccagct ccgggagctct tgagcccaaa 60  
atttgcagaa agatgcccaa caaatctccc ccaccaagg taccattagc ttgaactcat 120  
ctaagggatg caggcccat taactcctct acatgcttgt ccgatatgtg gtntccatga 180  
cttaataaga aacttctcag ccattgcctt acatatttgc tggagagggg ggattctatg 240  
ctactctttc tcacagtata aaagctatca gtaccgaatc taaggagcat tctgtaattc 300  
aagacagata gttaaataca tgaatgttat actggtttat caacacaaga ggagtctcta 360  
ttcataagtt 370

<210> 20592  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20592

tgagttcaat tatcaagctc ttgctaattg tgttgcccat cttgctgagc agagaagggc 60

agaaattgaa aaagaaaaat tagagaagtc gacggctgcc acagcttctt aagcttctga 120  
 atgtacatta ttactgctgc atttttaat tctcaagttc cctgttacc attctttang 180  
 agaatcagag ggttgctat atttgaggca tttgtcggct ttgtggtcgc cagttgttgg 240  
 tctttgatca tgaagagttt gcagtttga agtgctcgga gctctgtgca ccgaagttgc 300  
 cattgtccag agagaggatt gcattcgagg aactgtggag tcagcagttt ctccaggtct 360  
 tagttcacag cttattgttt ggtgctttgg ggctattcct ttggaggaaa gtgcccattc 420  
 ttgccaagac tgtgttgtec ccttctctcc ctt 453

<210> 20593  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<400> 20593  
 agcttctttt ttagacctcg atcggctcgtc cttcctggcc gacgccgact ggcatttttt 60  
 tcgatcaata tcggtgaata atattttttt tgccgaggtg ggctaagtgt ttcttgcccg 120  
 aataaatcgg aacatgccag tttcgggcaa aacgaaacat cggttgagct cacacgaaaa 180  
 aacctaaccg acctacattg taagtttttt atgcaacacc gaaacaagaa aacttcccct 240  
 gccgtaagaa aaaacattat cggccagcga gcgttttttt tttaaaaaaa a 291

<210> 20594  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20594

atactaagct tcaactgatg tccgattcag gcgcatacata tatcgagatt ctcgatattg 60  
 aacaacggaa gctctcgaga aattgaaatg atcataactt ttcaactcaga tttacgattc 120  
 agacgcataa tatatcgaga cgctcgaaat tgaactacgg aagctctcga gaaatttaaa 180  
 tgatgataaa ttctcaactcg gatgtccaat tgaggaacat cagatatcgt gacgctcgaa 240  
 attaaacaac ggaacctctc acgaaattca aatggtcata acttttcaca cggagatccg 300  
 attcatgcac atcacatatg gagacgtccg aaattgaacc acggaagatc tcgagaaatt 360  
 caaatgggca taactnttca ctcggatgtn cgattcacgc gcatgatata tcgagacgct 420

caaaattgaa caacggaagc tctcgataaa ttaa

456

<210> 20595  
<211> 338  
<212> DNA  
<213> Glycine max

<400> 20595

agcttcttca ttcaattttg accgtcttga tatgtgaagg gactcaatca gacatccgag 60  
aaaaaaacta ttgtcgtttg agttggctta aaaccttcac attcaatttc gagcgtctcg 120  
atatgttaag ggactcaatc agacatccga gtaaaagtta tgggcctttg aattggctca 180  
gagcttcaac attcaatata gagcgtctcg atatggtacg ggactcaatc acacatccga 240  
gaacaaagtt atcgctccgtt gagttggctc agagcttcaa cattcaattt cgagcgtctc 300  
cgtatgttac cggacctcat cagacatccc gagaaaaa 338

<210> 20596  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20596

ntgagccaac tcanacgata ataactntnt actcggatgt ctgattgagt cccgtaacat 60  
atcgagacgc tcgaaattga atgttgaacc tctgagccaa ttcaaacgac aataactttt 120  
ttcacggatg tctgattgag tcccgtaca tattgagacg ctcgaaattg aatgttgaac 180  
ctctgagcaa attcaaata caataacttt ttactcggat gtctgattga gtcccgtaac 240  
atatcgagac gctcgaaatt gaatgttgaa gctctgagcc aatacaaacg accataactt 300  
tttactcgga tgtctgattg agtcccgtaa catatcgaga cgctcgaaat tgaatgttga 360  
agctctgagc caatacaaac gaccataact ntttactcgg atgtctgatt gagtcccgta 420  
acatatcgag ac 432

<210> 20597  
<211> 351  
<212> DNA  
<213> Glycine max

<400> 20597

agcttttttg ttcggtgttg ccaaaaaatt tacaatgtat gtcggctagg gtttttcgtg 60  
cgagctcaac cgaagctgtg tttcggccga cactggcgtg ttcccatgca ctccggccaag 120  
gaaacattag cccacatcga aaagaaaaaa aaaacattaa tcaccgatat tgatcggaaa 180  
aatgctggt tgacgtcggc caggaaagat gaccgatcga ggtctaaaaa taaaagaatc 240  
accggatgac gccgatcgag catttcctaa ttgacatcat ccaaatttg ttcagggatt 300  
ggatagaaaa aaacatagct gataccagtc gttatgtagt cccgactgac a 351

<210> 20598

<211> 425

<212> DNA

<213> Glycine max

<400> 20598

tctatataag ctgaaccatt ttatcaataa acacaagttg agttttattc agaaaattag 60  
agtttatctc ttttatctta gtgagagtga ttctcctaaa ttcttgagtg attcaagaac 120  
accctggctg tatcaaagga ctttcacaac ctttgtgtgt tgccctcgct ggaaagagtg 180  
attctttcct tcctttcatc ttcacccttg ttctttcaaa ccacaattcc agaaaatcca 240  
cctctgcccc gaattatctc gtggccataa ctcccatttt acgcactcaa attaagtgat 300  
tcttgagcct aaattgactt tcaaaacgag acctttcacc tcgttttgga atcacctcat 360  
ttggagccct gtagcttcag ttattgccat ttctatattt ctgtccagcc accacttaac 420  
ctaca 425

<210> 20599

<211> 224

<212> DNA

<213> Glycine max

<400> 20599

tgctttcaag cttgtttgtg gggctttctat ggaggctgga tctttgagct tcaatgacgt 60  
cctttaatgg tgattttcca ccattgagat gcagcggaag actaacgaga tactgtgaga 120  
ggaggcgcca tccaccaggg aatatgcctt ggaagaagga gcttcaccac caagatgagc 180  
cttgataag aagcttgag aggatgcttc aatggaggaa aata 224



<210> 20600  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20600

cttctacaaa taaagggcga gtctggggta agattgaatg aacaaggcga agattattct 60  
 atggatgaat actctcctag aacctaagat tttgaatcct agagaaacca tgaattatct 120  
 gcagcctaac ccctttacaa gcctagatag tccttcggat tcattntgtg ttcattggctg 180  
 tatgatatga gaagaaatgc aaagggttga acttggtgtg gctgtttatg atggaataag 240  
 cctaaacact tgagcttgag tgaacaatg gctgtgaggt tttggttgat gatccttctt 300  
 tgatttttgt catgcttact agcttatttc agctgtgatt ctaatgctta tgctcctatc 360  
 tttgaaaagt tgcattgctg tgagaagtca ttgatttaag cattccatgg tattcagttc 420  
 atatggttga cttcctttat gaatcagaca c 451

<210> 20601  
 <211> 241  
 <212> DNA  
 <213> Glycine max

<400> 20601

tggacgaaaa gaaagaggga gagaaagaga gagacgggag cacgaaattg aaggaagaaa 60  
 aaggagagaaa agttgaactt tgaattgtgt ctcacaaaac tctcattcat caaagttaca 120  
 acaagtggta cacatgtttc tatttataga ttacgtagct ttcttgagaa gctttcttga 180  
 gaaaacttcc ttgagaagct agagcttagc tacacacacc cctctcataa ctaagctcac 240  
 c 241

<210> 20602  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20602

tcaagctnta gtcttcatgt tgcttccctt atctetaact gttctcggnt agttntaccc 60

caatataagg gagttcatta gaaacactct gagatagata gatagatata tatagagaga 120  
gagagagttt ccttgtatta tgtttttcgt tagtaataac atacacaacg tgtgctactc 180  
tcttcttctt ctttgacaat cttcttcctt attctgaact tattttctca gtcttaatca 240  
caacaaatat catgaatgac aaatttgaac ctatttaaaa atataaagga ccaatatgaa 300  
cttaattaaa ttcataaaag atcaatgtga attaattntt aaaacataaa cttcattnta 360  
taccacatta tcacttttca ttccaccctc tagcagacat aatgactata tgatggaaag 420  
aactaanatg gatcattttt aaaatt 446

<210> 20603  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 20603  
agcttttctc atagatagcg atggatgtat agtttttgca aacatgcata agaaaaatga 60  
aacaagaagg aaagagaaaag aaagacctcg aacgtcggca tgtatgggtca taagaagcat 120  
aatcattcg tagagagcca acatatcttt tggaaacaag agactgacgc taagagttta 180  
ttttccagaa taaccgagat aataatggat ggattcattc aaccgatgaa agaacataat 240  
ttggaaatat tgggtctact tgcgtaaatc ccaagccttt tagtatcaca atgccatata 300  
ctggatgctt gagtaccac ctagctgtag ccatgactaa ttgtgcacgt tgtatacaaa 360  
tcgtcactgt tacgcgtgcg ttgagaaata atatgaattc acc 403

<210> 20604  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20604

taattatntg ctatagnntt ttattntgtc aaaatgtttt tcatagtttg tgtttgctca 60  
agtgcagagt gctcaagatt tctctttcca tcattcttga tgagtatgct ttaaccaagt 120  
agttaagctc gaattagctt taaccaagta gtcgatttcc tccgacgacc agctgattct 180  
ccgtcgccga caatgcaca tctcgcgacc ccggctaact tctccacaa tgcacacgtt 240  
atacgtgtct cccctacat tgatgcacac agtgtggtga atcgccgggc accttggcgt 300

GenBank

gcagatgagt atcctaactc ggtctaacct tccggactct tctgtgtcat catctacatc 360  
aatcatgtct cctattgcgg ccacaaattg ccggaaatat ttcttatccc aactacaag 420  
gggaataccc cagcattga 439

<210> 20605  
<211> 398  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20605

agctttttct attangtgaa gacatatgaa tgatttatga ttntatatta tatctctaac 60  
atgccccctc atggaagaaa ccctttgctc ctttgggctt gaagtgtgga taatgcagag 120  
atctacctac tttgttctaa aaattcaatt ntttattaga agaatgacta tatgtgtgcc 180  
tttgggttaa ttgtggaacc tttatatcta tatttttagta gttttttttg tccatactac 240  
tacatttaag tatttttcac atgcaaacct ttntgtccca gtgattgtaa attatgaatg 300  
gtcaaaatta aatctgaaac tatgcaatct agtcttctgg ttacagtttg aattttccgt 360  
tgccttcatt tcagcactac agatcacttg gaatcttc 398

<210> 20606  
<211> 435  
<212> DNA  
<213> Glycine max  
  
<400> 20606

tgtttcagtc tcaaataaac caatgaagta atattatggt tcaatatcat ggaagtaagc 60  
acattcggtc caccatgaaa ctttaattga tttagagcaa ataactcatg ataatatcac 120  
ccccacacaa atgaatcacg tacgttttct acaagctcca atgccaggtc ctttgctgat 180  
tcaccatcaa gataatacac tgaccaatt aaattgctaa acttatcgac acctccagg 240  
acaagccgaa cctacatacc attaggatta gaaaattttc agaattgcaa aatcaatata 300  
acttatagaa acacattact cacttctcga ttcaatacac gcatctcagt gaaaaattta 360  
gcatcatgtg caaaaggatc ggctgcagtt tcagcaacag atgttgaaac tgcaagcctt 420  
tgtgcagatg taagt 435

<210> 20607  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20607

agcttgtagc tcattgagtaa ctccaacagc gagaccctgg ccggagtttt gttgagctgt 60  
 tcgataacct tgaattcgct ctactaaatt atatggagga actcactggc ttcctctagc 120  
 gacacctcct ttttaccatc ctttntctcc ggaagacctt tcgccggaat atctttatctt 180  
 gaagcgtggg gtgcttcacc atcttggtcc tccaccactt ttcctttccc cttgacgttc 240  
 gcgggttgga ctggtaggtc cggaggtgca aacacacgac cgctacgggt cacaccactc 300  
 agtcccgtga tatttggtac cttagccgac aacgagctga catcgggtggc ttcttcttcc 360  
 ttctccctcg gaggtgtata tctccatggg act 393

<210> 20608  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20608

tatcgagacc gtgacacctc accaccttac cttgtacatg ttttgcgact ctntcttgtc 60  
 tttaacatgt tgtattgaat accatgggtg agtttgggga actcgtgttc actgcaagga 120  
 tctttgtttg tttgtcttgc aaggatttgg tttgtggaac ttgtgttcgc tgcaaggatt 180  
 tggtttgtgg aagtcgtggt cactgctagg tctgtttggg gtgctcacat tgcagtctgt 240  
 ttgggggtgct cagtcgtgct cgcaggggtc cattntgagt aagggtgattc agattgctag 300  
 ttgtcctttg aatgcttaat ggataggtag ctaggtgtct attgtaatac gtatagcacc 360  
 atggcaaagt taacaatggg ctggttnttc ttttattggt 400

<210> 20609  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20609

**THE**

<400> 20610

<210>	20611
<211>	319
<212>	DNA
<213>	Glycine max

8635

tataacccaa cccaatggca tagtgtgcaa acagatnttt ctttnntttt tttgaaagta 300  
 aaaaaatggt acaatgtga 319

<210> 20612  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20612

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 aaaccaggag ataatagggt ggtattgaag catacagtgg acttgccaaa ataaattatt 120  
 ttagccactt tcattataag aatcagtgtg cattgttaca ccagactaat tgcttatcta 180  
 ttttccagtc ttccaataat ctaatctaat ttctaacaac gttcattgac ttaaaataac 240  
 ctatatatga aacaagagta agaacagact aataccttta atagactatg caaaaaaaga 300  
 taaattcaaa acaagtatat tgctcattat gtaggggagt ctattttaag caaaggacac 360  
 acgttattac aatataaatg taacaccacc ttatggcacc tgaacaattt ctttctcatt 420  
 agtggatgac gaaatctaag gatattta 448

<210> 20613  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20613

gcaatcactc gtcccggatc ttagagtcac ctgcagctgc agcttatact tttattnttc 60  
 agactcaatg gaaggactta agaactgac taatgcttgt gccaacccgg taacattcat 120  
 ttccaaccta gttgtgactt gtttattggt ttaaattggt taacttttag ccataaaagg 180  
 tgttgtnttc aggtcattgg atttgtatct aactagtatc tcaactgctt gatataaag 240  
 tttaatcttg tgaaaaactg ngcctggatt atattacata aatgtgatta tattaaaatg 300  
 ctgctcngat ttttattgat atatttgatc accttaaata aattggtaaa tattgaaaga 360  
 gataaattaa aatgattcg aaagttatat aaagtatttg gaaaacccta tccacattag 420  
 ttagag 426

<210> 20614  
 <211> 534  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20614

gggatgcatg gggtgaaanc attggaaatg canctcnatt tggtaaaaat aaccgtgggt 60  
 gatnnnaana tatatattat taaaataata aaaattttta aatttataag acagattaag 120  
 ggggggttttt gatattataa agtattaata caattataac tggagtacta ttaatcatat 180  
 tataggtata tatttgggta ataaataact gtgggatagg tatgtatggt gagaatatgt 240  
 gagataaaat agtaggttgt aaaatatata tatgtataaa tttgtgggta tatatttgtg 300  
 ggaggggtga tgagagttgt agaaataacg ctnattgcgc catgacgacg atatgagtat 360  
 atatgttttag tattattaaa tcttttataa aatcattatg tatgaattag tggggattaa 420  
 tgcattat aaggatgtaa tatattatta aagagtgaaa atattaggtg tagaagttgg 480  
 aggtatgata ttattgctaa gtatatttgt atatgtgatt tgagatgtta gagg 534

<210> 20615  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
  
 <400> 20615

agcttattac ttttatttcg agcgtctaga tatattacag gactcaatca aacatccgag 60  
 taaaatgtta ctggcggtta aatttgctta actctccagc tttaaatttc gagcgtctcg 120  
 atatatgacg ggactatatac agacatccga gtaaaaagtt attgtcattt gaatttgctt 180  
 agagattcaa cattcatctt cgagtgtctc gttatattac gggactcaat tataattcg 240  
 agtaciaaagt tattggccgt tgaattttct cagagcttca acaatcaatt tcgagcgtct 300  
 cgatatatta cgggactcaa tcaggcatcc gagtaaaaag ttattgtcgt ttgaattggc 360  
 tcagagcttc aacattcaat ttcgagcgtc tcgctatatt acgggactat a 411

<210> 20616  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 20616

ctaagctttg agcaaattca aacaacaata actttntact cagatgtctg attgcttttc 60  
cgaatatatc gagacgctcg aaattgaatg ttgaagctct gagccaattc acacgacaat 120  
aactttttac tcggatgatt gattgagtcc cgtaataata caagacgctc aaaattgaat 180  
gttgaagcta tgagccaatt caaatgacaa taacttttta ctcgatgctc tgaatgagtc 240  
ccgaaatata tcgagacgct cgaacgtgaa tgtgaacctc tgagccattt aaacgacaat 300  
aactttttac tcggatgtct gattgagtcc cgtaatatat cgagacgctc gaaattgaat 360  
gttcgaagct t 371

<210> 20617  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20617

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taagaaaaat gccatttctt cttctttctt tcttccaaat ccatttctaa agttacaagt 120  
actttctcca tcaccacat ccaccattag ccaccacaaa ccatcattgt tctccattga 180  
aaaccacac cgagaggaac cttcaaccg aagcagaatt tccaacttgg cttgcggttt 240  
cggtagagaa cgaaaaccct aatctgatct ttcattttct ttcgagggaa ctatggttct 300  
atgcttggtt cttgtagttt catcttgtct ttgcattctt tctaactttg caaccgcat 360  
tgcatgtctt atgcttcctt tgaaaaacct tagagaanaa gactttgtaa acatgatcct 420  
ttcat 425

<210> 20618  
<211> 331  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20618

accggtgaga gtgngacctt actctgggag ttgtcgactt actgttattt atgatatttg 60



catgaatctc tgaattctag attgatatgt atagcttaaa acatgatgaa ggccatgatt 120  
 tgtatataca ccagctcttt tgaccaaata gctcaccttg aatgataact ggatcttttg 180  
 ctcttctat aagttgaatg atttttgtca tgaatcgaac ccttaacatc aatgattatc 240  
 tcttgcacct tgctacattc taggagagca tatgggtcaa ggcaaattta ctctaaattt 300  
 gggggaggaa agtcaattag aatgaaaaga a 331

<210> 20619  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20619

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 ccactgttct tccttcccgc gatgcttctt ttcattgtccg cctgagtggg cttatagcct 120  
 anaccatact tcccacgatt tccttgggtt tttatcaggc tagttatgcc gccattgtct 180  
 ttgcctaaac ccattcccggg ttcataaccg ttccccaaca taactcgggc catcattacc 240  
 gccgcatcgg acagacaagg ttgcccagg agggagtcca cggaggaaat gctgaccacc 300  
 tcaaaagact ggaaagcggg ttcta 325

<210> 20620  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20620

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 aattcatgtg ctagagtgtc agttttgggt tgaactccca tattatttcc acgaggcgca 120  
 cgtaacaatg atgatttga aacaacgcgc aaaattaatc atgcctacaa ctaggggggt 180  
 actcaagcct ccaacttatg gcattatgat actaaagctt gagatttatg caagtagacc 240  
 caacgtttcc aaatttggtc tttattgggt caacgaatcc atccattctt atcttggtta 300  
 ttttgaaaaa taaactctta acgtcagttt tctgggtcca caagatatgn ttgtctctta 360  
 cgaatgattt attctttcta tgaccataac acgtgacct tgaggggctt ctttctcttt 420

tcttttttgggt tca

433

<210> 20621  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20621

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tctacgagggc ctgactaac atggaccatc tttataagta attcaaaatg aatcattaat 120  
atagattaat ctaaatccac attattatgg tacacctttc ataatatatt ttttctccct 180  
cactgccata gtcttgtaa tcaacctaca gcctcctacc tcctatgtcc gaccccatcc 240  
tctaattttt atttttttta taaatgcaa acaaaaatat ctgacttaga aaaacataat 300  
tttttttagt tgattcaagt cttcccttgt tgcaatcatc caatctaagc tntaaattga 360  
tttctttggt ttacattgca tcaattgaat aatntaattc ttcgtatttg actatagaaa 420  
a 421

<210> 20622  
<211> 448  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20622

tcacaccagg tataaatggt atatgggcag agaacaaaga tgaanatttt tattatgttt 60  
gcttaaaata tgaagaggac attccttaag atagaagctg caaaaataat tatttataat 120  
cctacaactg atctgcaatt caatttaca tttagcgacc aaatcatttt gactgacata 180  
tcaatatgtg cctccgcacc ataatggcat aatccatgc ctatcattgg cttttggctg 240  
cctaagtgtg ctaatgtcga aaagaaattg tgccacggca aagccaccac cgaagcaata 300  
ggatggcaga gcctatgaga tatcactatg cagcttatgc aatgagttgg aagaactatt 360  
cctgctctac anagtatcat aacaatcnn tctcataaat ctagacanat aatttctcac 420  
atccatatag tgatcatgc aaatgaaa 448

<210> 20623

<211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20623

ttcntgtttt tacagcgtaa atggctgaat acattgaagt ctttgaaatg taaataaaga 60  
 tattgtagtc ttttgaaagc ataaatgact aaagacattg aagtctttga aatgtaaattg 120  
 gagacattgt tgtcttttga aagcgtaa at gactaaagac attgaagtct ttggaatgta 180  
 aatgacaaag gacttgagtc ctatgaaagc ataacgacag tgggctttga gtcctatgaa 240  
 agataaggac agaggacatt gagtcccatg aaatcataan acanatgatg ttgagtccta 300  
 tgaaacaacc caatagttac tagtaccaaa gggctcaacc ttatgagaaa gcaagagaat 360  
 gactctnttg aaaggtctct cattctaaac ttaagagata ggacattaga tttangaact 420  
 gatatatg 428

<210> 20624  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20624

ggcttacatc tggctcatggg tctggggctg gtgggttgcca tgggcttaag ctttgatttc 60  
 cacatcagca tctttgtcgt gccttgattt ccttaagaga agaaggaaac aagaattctc 120  
 tcaacttaact cttcttttcta attactctga tgtgtgatgg aggccacaaa tatatagaag 180  
 acgtccttac ccgaatgcga accttctgat ccaaantaaa cgacaataac tttttactct 240  
 gatgtctgat tgattccgta atatat 266

<210> 20625  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20625

tctttatatt caattacgag cgtctccata tattacggga ctcaatcgga catccgaatt 60  
 aaaagttatt gtcgtagat ttttctcaga gcttccgatt tcaattacga gcgtttcgct 120

atcctacggg acataatcgg acatccgagt caaaagttat tggtcgttga atttgctcag 180  
agcttcagtt ttcaattacg agcgtctcgg taaattacga gactcattca gacatccgaa 240  
ttaaaagtta ttgtcatttg actnttcata gagcttccgt tttcaatttc gagcatctcg 300  
atatattaca gggctccatc ggacatccaa gttaaaagtt attcgtcgtt gattttttctc 360  
agagcttccg ttntcaatta cgagcgtctc gaatcctact ggaccaatcg gacat 415

<210> 20626  
<211> 421  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 20626

ttggagtttc caagtgccaa ttcgncttct tctttaance attcttcttc tggcttcaat 60  
tcttcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120  
gctttccaag ttctgctatc cagtgatttg aggaaggcca ccattcttgc tttccaatat 180  
tcatagttgc ttccatcgag aattggtggt ctgttcaactg gtccgccttc tttctccatg 240  
ttcatcaaac gtatctccta gatctcactc tgtgatttcg agtggttggt ctgataccaa 300  
ttgaaattct gataccaggg gacagatgtc gtacaggatg tcacgacatc acgcttcaga 360  
acatgcagat tatatgtgtc cgtatgaaca gattaaacca agtaataaca caagagaatt 420  
g 421

<210> 20627  
<211> 400  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 20627

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ataggttgga cctcccagaa gagaatggag tcagcaccac ttttaacatt tctgatttaa 120  
ttccttttgc aagtggagct tatattgagg aggaggaact aacaaatntg aggtcaaadc 180  
ctcttcaagg ggaaggggat gatgcaatcc tccctaggaa tggaccagtc actagaatca 240  
tgagcaagag gctccaagaa gattgngcta gaattgctga agaaggccct anggtttctca 300

tgaacctcan ggtagatttc tgagcccatg ggccaaagtt gggccaatt atctttgtac 360  
atattagact angatgtcat tatatttggc cttggattta 400

<210> 20628  
<211> 481  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20628

gcaccgatgg tttgaacctt tgataccnct gcatnnacgn gacaccatag aatacttcag 60  
cttcttatat caggcttatac ttggtgggga aagctcttcc tttcttgctt aatccctaata 120  
ggatggcgcc tctcttcat tcttttcctt tgtcttccac tggattttcc tgggggaaaa 180  
tcaccattaa aggaccaat tggagctcga agatcccacc ctcataaaaa ccccaccagc 240  
acgcttacat cagaattaga gggccctct tttagaatcc ctaccgaagt aggattggaa 300  
gaatcaaagt cgcctcacac actttgatta attaaatctt atcgaaggta gagaatggct 360  
tgcataaacc attggccact atttcaagtt gagtaaaaaat gtttatacaa atgggacacc 420  
gtgtagttca cgaggggact tgtctaagac aggtccacgt tttaaagatca caaggaatga 480  
c 481

<210> 20629  
<211> 337  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20629

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ttgcaacaat ctggtgtctt atgcactccc tcagcatcgc accatagtgt aaagccatat 120  
cttggttttc atagctgaaa ggcaacaatn gtaagtcatt tgcatactcg aattagagtc 180  
tataagggtta aacgtaattt aatgagaacc acaatatgaa acataagaaa taacatgggc 240  
atcacgagat gtaaacaaga catacttcg acaaaaactaa atntaaaaat cacaaatcca 300  
gtgatcangg acatgagatt gtcattgtcta attgatg 337

<210> 20630  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20630

tgacccatga tacgctgcat cacngacac atagaaacta agcttttggc anaagtacaa 60  
 ttagcnaaaa attataatct ctgctcatcc aancaatatg gcaaacctgg tgggaatttgg 120  
 acctcaggtt aaaagctgca gaacccaaac ggcatgtgga caccaccctt tgatttaata 180  
 atcggtagca tttattctga aagctcttaa ggatttttct atagggtaat tcaacttaaa 240  
 cctttgagac agaaggggga tagtaaatta ctacaacgtg ctatgggtccc taaatcccag 300  
 atttaacact taaccacta gttacgagct aagtgattta caatgaatat aatgagtga 360  
 ccatttgac ctcaatagct gaggtcatgg tcagatggaa agtaacacga agttgacagt 420  
 tgtacaatct atatagctct gaacttttac n 451

<210> 20631  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20631

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 ttccctttcc ttgttttgaa gctcactaca agccttaagt gaaaaacat gatattacca 120  
 tacccttaag gaattntgga gctttggaat tggtttggga ataagtgtgg ggggtttttg 180  
 tttcattgga caacttgttt tggttggtat gcttcatgat gtattttggg ccatacttga 240  
 tgtacattgt atattggtta aatgttggac atgctgaatg aaatgttgtt tctcaaaggc 300  
 taaagagtaa aaaaaaaaaa aatctanaaa aaaaaaaaaa ct 342

<210> 20632  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20632

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 taagagtagc atcccttggt aaaactaact ttccaaatgt ttgccttcac aggaaatggc 120  
 cccgaggaag cttgcctcaa agagggtccag gaaagataaa gcggccgaag ggactagttc 180  
 cgctcctgag tatgacagtc accgcttttag gagcgctgta caccagcagc gcttcgaggc 240  
 catcaaggga ctgcgtttctc cgggagcgac gcgtncagct caaggacgac gagtatactg 300  
 atttccagga ggaaataggg cgtcgacggg ggacatcact ggttactccc atggccaagt 360  
 tcgatccaga aatagtcctt gagttttatg ccaatgcttg gccaacagag gagggcggtgc 420  
 gtgacatg 428

<210> 20633  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20633

tgtttgcttg ctttatctca atggacttac cttgaattaa ttccttagat agcccttttg 60  
 agccttggtt ccctttcctt gttgtgaagc tcaactacaag ccttaagtga aaaaccatga 120  
 tatcaccata tccttaagga attttggagc tctggaattg ttttggggaat aagtgtggcg 180  
 ggtttttggtt tcattggaca acttgttttg ttggctatgc ttcattgatgt atnttgggcc 240  
 atacttgatg tacattgtat attgggtaaa tgttggacat gctgaatgaa atgttgtttc 300  
 tcaaaggcta tagaantaat aaaaaaaaaa tt 332

<210> 20634  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 20634

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 gcaaccctg attggttgga aaatagcact ataagatcat tcacaatatt gacaatttta 120  
 atattttctt taaccogaat gcacgtgttg attgattcat ataataaata acatgtatat 180  
 acttactctc attctaattg tcaatatgca tacacatgtg tttattaatc caaaattatt 240  
 cacaccatca gtgattccta caattttctt ctcatttcca ttgccaaact gatctgaaag 300

aaagagcatg attagtcaac tactattaac aacagcttta ctgattgagc 350

<210> 20635  
<211> 303  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20635

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gtctatcata tgctgacaat agccgagaag cccatgaatc tcttcggggg cggagtaggt 180  
gtctgccatc gccttggcct tggctaacia tcggagaagt tcttgactcc cattcaagggt 240  
aagagcanac cgatccatcc acatgggtgc ctcttggtgt aaagagtcgc tcacccttcc 300  
tct 303

<210> 20636  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20636

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cttgcaagat gtggctctgc aaccaccaat tatgaacatg gaggaatttc tgcagaaggg 120  
tgcctaacca ggaatccagc cttcttcttt gggaaggggg gaagcctctg gcaccanga 180  
accttagccg gaccaaggga ttgatgaaa tccctgaaat ggccaatac aagcttaagc 240  
gcccagtgag aagggcgaag gccctgtgga gaatgataaa gcccccgagt ggagaaggat 300  
gaaagcccaa gtggagaagg atgaatgcc caggcagaga cactatcaag actattattg 360  
ttgctgaagc ccagattaat tgagggccac agtaataagt nntaagtata attattttat 420  
tg 422

<210> 20637  
<211> 290  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
 <400> 20637

caatttgggg aaaattggat gagggaaaaa gtgggttttcg aaatctgcac tttatgccga 60  
 attttgtata agtgcagaaa aatgcttgtg tatggctggt tgtgaaaagg gtagtacata 120  
 tgggggttctg gacattntct agcagatccc aacggtaaaa atgtagactt atgtactaga 180  
 gacttccagt aaaatttttcg agtcgatcca acgggtaaca aattggaacg aagaanatgt 240  
 tactggggta tttgtatgtg aaaagtgtgt attttgagtt gtgttttggg 290

<210> 20638  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 20638

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 gccctttgggt gtgactaatg ctccagggtg gtttatagaa tacatgaata gagtctttca 120  
 cccttacctt gatagttttg tggtagtatt cataaatgat attttggtat actccaagac 180  
 tagagaagaa catgaagaac acttgaggat tgtgttgcac accctttggg actgacaact 240  
 atatgctaag ctatcccggt tgattttgggt tagagaaagt tagtttccta gggcatgtga 300  
 tatctcaagg gggcataact gtagatccct ctaagataga agtcgctctt gagtggggag 359

<210> 20639  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20639

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 tttataaagt ataaaccgta cctattttaa gcctatgaag agagagagtc acacagtttt 120  
 cccatcaciaa ggtcatgtta aaactcaaca tgaaaagata cattccctaa gttgatttgt 180  
 gctctctttt aaactgacta ctaaattgag agggactttt aaattactga actattcttc 240  
 aattaacatt aataaaggat ccttggttcc tttgtagcag ggtcctcttg ctgctccggt 300  
 tcttcaacac ctgacaaaag cagatttaag caagatgtac tnttgggggt tccaagtgtt 360

ggacatcaat ggtgtgcagt gctttctcac acggac

396

<210> 20640  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20640

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ctccacacaa acagattttg aagacaaaaa ttgggcaagt ttctgcagat cgaatgttat 120  
gagctgatag gaccatttta tctggcttag tgagagaggt cttatacatt ataccacaat 180  
tttaaaacaa taatcacagg aaatagtaag ttataatata aaaagaataa ttttttcagt 240  
aacatctgga aattttgttt tggctactgg aatctgatgg cagattgaaa acaaggctct 300  
cttccaaggt cttctgaacc ttcattccaa aatttttaac ctttatcatt ntattttttg 360  
ttcgtgcaat ttngggattt ctctgtcaat ccaagctatc catagtctcc aaacttattg 420  
attagcagtg gttaacacat tggttctggt tctcaag 457

<210> 20641  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20641

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accagaggg aagctcccca agttccaact ccgaacgga ctcgaccggc cggtaatcc 120  
aacacaacaa ggaacttccc tccgaggccg ttgccggaat tcaccccgct cccaatgacg 180  
tacgaagatc ttctaccatc cctcatcgcc aatcatttgg ccgtggtaac tcccgaagg 240  
gtcctcgaac cccctttccc gaagtgggtat gaccctaag caacttgcaa gtaccatggg 300  
ggtgccccgg ngcattccat cgaanaatgc ttggccctta aatacaagg ccaacatcta 360  
atggatgccg gatggctgac 380

<210> 20642  
<211> 442

<212> DNA  
<213> Glycine max

<400> 20642

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tgtctgtaaa acgaaaagcc tgatagcatg caaaagacta acgtcgtctt ttgcgccctt 180  
cgtcaatcgc ggccgacaag cccgttgaca cgcagagatt tacgtcattt tccgcgtca 240  
caagatctgt catactcgca tttgatcatg ctgacggacg gaaataccca agtggatata 300  
cgtataaaca ttcttttttc ctgtctgtaa gacgaaatgc ctgatagcac gcagagacta 360  
acatcgtctt ctggggccctt cgtgaatcgt ggccgacaag ccccgtaga cgcggagatt 420  
tacgtcatct tccacgtca ca 442

<210> 20643  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20643

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aaaaggttnt gactctttca aatgggtttt aagcttttct aaaagatata actcttctga 120  
atggctttct tgaccagaca tgaagagtct ataaaagcaa ggctttgttt tgcattttaa 180  
aatcaattat tccaagtctt tctaacaaat ctcttacaat cctttacaag ccttgaatct 240  
ctttgaactt cttcttcttc tttgtaccaa aagttntctg aagttttctg gttttctaaa 300  
ctttggaaac ttatgctatt catccttttc atgctcttct ccttttgcca aaaaaattca 360  
ccaacgacta atcgctgaa ttct 384

<210> 20644  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20644

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 taataagctt aagctattaa gtaaagatgc ctgattggcc ttctattaca tccctaacag 180  
 tgggtgtatTT ttagctgcaa aaacaaattg aaaaatgttt gtctggcatc actTTTTTTT 240  
 acacttattt tgtattccta gtaaagtctt actcatatgg acacacagat aaggagagaga 300  
 agtaaagaag cTTTTTTTca aagggtgtaa atgtgagact cataaaatgg tgatgggtgat 360  
 ggctaaggta cgcaagacat ttcaggtaag ttctaacttt ntttactagt cgaaaaaact 420  
 cattac 426

<210> 20645  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20645

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 aatcgattac atactttgtg taatcgatta caggctttga aaatcaaatt cgaaattttt 120  
 aaaattgttt cagaaatcaa ttcagccact ggtaatcgat tacatcctct gctaatcgat 180  
 taccagagag aaaatatcat atTTTTgaaa tcttaaaaaa cttttgtaaa atatccttta 240  
 gtcaaacctg tgcaacatta attaaggaat tctttctaag atcctangaa ctaagtacat 300  
 cattcttctt gaatntttgg attctggact tggatcgtgc tcattctang catcatcaaa 360  
 acttcatatc atatatgctt ctacacaagg tangtgagga ttatctcatt agttaggcca 420  
 ttatanatta ttttctat 439

<210> 20646  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20646

gcttcgatct gttcccatat tagctgggtgg gcttagacaa caatctcatc tatcgacgta 60  
 tctctatact tgatttctag aatgaattat gagcatcaat ggggcacttt taaagtctct 120  
 aaataaggtc ttgatccctt ctcttggttc ctttgaaatg cctatccaat atttatgtat 180

cacttaaattg tatctatcct taaactgaaa aaaagaaagg caaaaaggac aaaaagaaag 240  
 aaaatgagct ctttangaac ccctccactc ttgatactcg tcggactaaa atgggttgga 300  
 gaataggtcc aagtgggtgc aaagatgatt tgtctaccca tgatgatcag tcgattttat 360  
 ccctattctc aagaaacctc cattccagac gaagtcttgt ctcagtattt ctagtctcct 420  
 atg 423

<210> 20647  
 <211> 190  
 <212> DNA  
 <213> Glycine max

<400> 20647

atcactcttt tactcgggtg atcactcttc tttttatatt cctttgtgga gcctcactat 60  
 tctctttctc ttgttctctc gtttctctca ttctgatttg gacatcacat gcttctctac 120  
 gggatagagg ttttaagacca aacgaggaag atttgactat tcgtctgtag ggctcttctt 180  
 tgtacgggtc 190

<210> 20648  
 <211> 522  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20648

ccacaccact ccccaaaaat aaacaaaaga cacaggnac ccccnnnncg aaaggagagc 60  
 ctgacctcga aacngaacan ananaccaac nngaagaaca aaggagaggg aacgaaacta 120  
 tgagatgatg cgcaccacga gcacgggggg caaacggaga atcgagaaca aaacgaacaa 180  
 aaaaggagga gaaaaggga agacggcgggt cctagacgaa accgaagtga tgggaacaaa 240  
 cgcaacagac ctccacacaa aggaaagaag gaaccggacg cccaccagga acgagagagg 300  
 aaaacagagc aaggcctccc aagccacaac tatgatgcga ccacacgcga agcttgccaa 360  
 cacgggagtt tccgaccatg cccccgaggg gcgaacaagc caccaaagga gagagcaaga 420  
 catgaacagc caacggccga acacggaccg gaacgaaaag atcacgagga agcggatgcg 480  
 ccggccaaca cacacaggac acgaaaccaa gcacananac cn 522

<210> 20649  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20649  
  
 atcttttttta ttttaattaa aacgttcaat aaactgctgg taatcaatta ccatccatgt 60  
 gtaatcaatt acacgttata aattttgaat tcaaatttct agtgactggt ataaacatct 120  
 tcagctgctg gtaatcgatt accagagaaa aaatctcaat tggaaataat agaactcttt 180  
 ggtcaaacct tntgttnttt caatttggaa acttcttcct aaagattcta gagatcaact 240  
 tgatcatata tcttgattnt cttggattct tgtcttgaat aaaacttaga agcacttgat 300  
 ccttttagcat catcaagaca tcaaaacatc ttgcttctac atangagtca nttgacttaa 360  
 tccatcaact ganaaatcct tcaactatct ctcgtccttg gaaaattcat ttgcangaat 420  
 caactgcac tt 432

<210> 20650  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20650  
  
 tcaactggtgg atttctcaa tgagcaagtc cttctaagtc tctggcggtc aaacaaaaac 60  
 aactttttcca gccacagatt ttggcattgg ttcccataat tactaaggta gcagagcaaa 120  
 ctgcccagta aaatccttta tttgttgaag acaagcaaga atcctcaatg agcaaagaga 180  
 attgaagaac agagagtgg cttttttaca tttcaaaaaca gatttgggta cagaagatcg 240  
 gaatttgtga caccatggtg caacatgaag taaacagacc acattttata aacaaccaa 300  
 tctaaaaaac tataagatta acaagaagcc catttgaaaa ctaacaccta acacaataag 360  
 ctgaagttcc aacatgaagt tacaccanac gctgcttat agctacatag gcaaatacat 420  
 atccctcac 429

<210> 20651  
 <211> 421  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20651

atctttttaga attcaccceca attctggtgt cctatgctaa ccttctctca tatctactcg 60  
ataattcaat ggtagccata accccagcca tggntcctca acctccattt tttcaaagat 120  
atgactcgaa cactacatgt gcttatcttg gaggagtcc ggggcattcc attgagcatt 180  
gtangaccct gatacataag gtgcaaagtc taattaatgc gggctagttg aaatttgagg 240  
agaatcgctt gtgaattatg acattggcaa gcgacactat acatggngca atttgaaggt 300  
tgttggttaga tgtctctaata gactttanga ttttcaagtt tatgccatta ttctaacagt 360  
tacaatgcta ataatatgat aaatttgaca tccttgtctc tcacccctc acagntacat 420  
c 421

<210> 20652

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20652

gtttgtcttt gacagtgaag aacaggatta tttggttata aancattnc taagaaaacc 60  
caaagaaaat aagtgttga aaggcctgcc atccgaaatg ccttggctat tgaaatcctt 120  
gaagaaaagg gttatgaagt tgaaaaaatt tgatggccaa ttaaccatct atacctgctt 180  
aagaactgga gttatgtang gaagggtggt atgggttggt tggctattgg tctttcataa 240  
ccaaccatc tcctatgcaa tgaatatttg gatagtgggt gaaacaacca gttttaaaacc 300  
agatttggtg atgggtgaca ctgatgtact ctggataggg tggcatggaa actcaacaag 360  
aatgacaata tcaaccattg aaatcttccc agtcctttta gccacaccct taattntgta 420  
ataccacaaa gttatn 436

<210> 20653

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20653





gtacgctaag cctcgcatct caggctaagc gcatattgca gaaagatttt tgggtgttgca 180  
aattcacttc ccaagaggct tgggaaagat acatagatgt tattgtgcct aggaagcttt 240  
tggcagagag gaatgtggtg gtctactata cagagtttga tgagttcaag gaggaactcg 300  
agacacacca ctangatgag gagttgactg actttggtga cagcaacatt gatgttgcca 360  
ttgtgaaagg aatctacgcc aacctctatg accncgagga canatcacct aa 412

<210> 20656  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20656

ntanaatttg aattanaacg ttcagaaaact gttggttaatt tattaccata tatgtgtaat 60  
cgattacaca gggcaaattt tgaattcaaa ttttaatagc tgttgtaaat cagttttggc 120  
cactggtaat cgattacatc ctctggtaat caattactag agagtaaatt cttggccaaa 180  
ctttttgcta cttcaattgg aattcccttc ctatttaata taccctttct aagactctat 240  
agactgtctt ctcatcctct tgaatatctt taattgcttt gtcttgaata aagctttgag 300  
acgcatgtga tattntggca tcatcaaaac atcggcttga tcctttgtct acacctttat 360  
catttangaa caacgacctg agtgggtaaa cgcacagaga cagattctgc accctttatc 420  
attcangaac cacaacctga 440

<210> 20657  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20657

tgcntttgca tcnnnggaga acccacatgg gatcaaatga caaagcatat cagtctgttt 60  
atcaggaacc tgatgaagat gagattgtgg gtgtttccct ctcacggtca cttctaagtg 120  
tagctgcttc agctttgatg accaatataa cagacttang ccctcttgct ttgccctatt 180  
ccgagcagct gcgctatgga tggtcagtga tttccaggaa aatgtgggca aggcggaaca 240  
aggaaatgta tgttccanat ttcatgaagg ctttngagca tttctgcata catgctggtg 300

gtaagtcagt cgtagatgcc atagaggaga gtctgaagct gcacaagaaa gacggtgaag 360  
cctcaaggat ggcattatac agaattggca atacttcac tttctctgt 409

<210> 20658  
<211> 378  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20658

tgtacattca tttgaatatc attttctatc ctctccatca tttatctaaa tatcatagat 60  
atagtaatta attgctaact ttgatagcca atttggatag gctgggtgaa atttgatata 120  
atgtcaatag taaagtggaa actgcaattg ggccaataat cttgggggtgg ccaaggaaag 180  
tattcgtaga cattaatttc atgcatatga catgacagaa ataaagagaa tgatgaatag 240  
aatcgcttgt taaaatcgat ttacatatga tcacacttat atatgctgnt gctatcaatg 300  
caaggggctg attaataaaa gatcgaaatg tattatatgg cttataataa caagtccag 360  
tagatgttgc atataaac 378

<210> 20659  
<211> 334  
<212> DNA  
<213> Glycine max

<400> 20659

agctttctct aaatcagtca aatgttgatc tataccagct aacttgacta ccacatcac 60  
aacatatact ttgatgtttt gcccaatggc atcatgaaa atgagattca tagccctcta 120  
ataagtggca ccaaccattt tttagtctaa acgacatcca taaccattca tatatccaa 180  
gagctctgag acaacagaat atcatttttt gcatatctac aacagccata aaaatcttat 240  
tctaacaaa atgaccatta ataaaggtaa gaacaccata tttggttggt gcgtcaacta 300  
acatgctagc tatgggtata acatactcat cttt 334

<210> 20660  
<211> 472  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 20660

ggtgcccttg accttgggcc ttgantncgn gacctatgaa actaagctta accataggta 60  
 gatgcacaca aaatgggttt atgcatctta aatacgccct catgtagcag cttttaaaact 120  
 tgaagtgtgg accatgccaa gagttgggaa ttcttaaagg agatggaggg tttttattag 180  
 taccacataa aagatggaga gttggccatg gccttatacc aatgtgggac aatgggtcttt 240  
 gaaccaaac gcccttgct tcattgggaa gatgttaaac acattggcct gggccatttt 300  
 aaatgatgga agaccatttt atacttgaag aaaggacaca taagtgactg gtttactcaa 360  
 gaaggaataa atgggaggat agtgcaacag tgcaagagaa aaacagtagg gggagggagg 420  
 tgattcttct ggatcatgag cacaaggacc tgannattca ttagaggaga gc 472

<210> 20661  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 20661

acatagatct gtatgggtgat ctgcagaaga acataaacca cagactcttg caacaagtgc 60  
 atatttctga ttcattggcaa gctgagttac taggttaacc aaggcatcaa gttttccctc 120  
 aagcttttta ttctcagcag atgaagatga atccatggcc acctcatgga ctctcttaag 180  
 gacaatagca tcatttcttg cactgaattg ttgggagttg gaaaccatct tctcaatcaa 240  
 attcttagcc tcagcagggg tcgtatcacc aagagctcca ccattggaag catcaatcat 300  
 actcctctcc atgtagctaa gtcctcata gaaatactgc agaaggagtt gtcagaaat 360  
 ctggtagtga ggacaacttg cacac 385

<210> 20662  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20662

tcanaccaca gcaacacana atctaggtgt ccaaaacccc tcaattcaat ggcttttcta 60  
 ggtttgaaag gtgaaattta gaatgaggta aatttgaagc aaactctcac ctacacaaag 120

tccataacat caatctaaac ttgctcaaac tgaatttaca ccaaaaaattc caccaaataca 180  
aaatttgact cttcaacacc caattttgccc ctagaaatgg ctcttggttc actttgggtca 240  
tttgtttttc tctctagcta gcctaccttt ctacatgtc ctaaatgaca tttcaagcta 300  
gtattaactc actttaacct ccattttacca caaaattcag acttagcctt ccaactctca 360  
aagtctcacc ctttntccac tcataacatc acattctcac tntctaacc taggttagtt 420  
ctacccttca tctctaaca 439

<210> 20663  
<211> 372  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 20663

agcttttctt tttaaattaa ttaagtataa ctaattttta attaaattta atcacattta 60  
aaatccctca ctctttttta attatacatg atgtgaaaac taaactcatg ttctccgaga 120  
agcttagcat ctgttggtcaa agaaattgat ctctcaacac aaatttttct ttgtatgctt 180  
ggagttggaa ccctgaccac atagactctc ccatgtgctg tatatgattg attagaactt 240  
acaacaacta agcctagtag tggctttcat attcacccta tcttccaaag ctaaacaggc 300  
atttaattaa ttatatattt acgaataaat atatgaagat gaagttgtct ctggttccat 360  
atataaaaca cg 372

<210> 20664  
<211> 424  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 20664

tgggaaaact aaacctcatt acattatttg agagctanat tccatttttt ccaagactta 60  
tccgagaaca ccaagatttt cccttgctgc accgctcaca taggacaggc ctttaacta 120  
cctaacaaga cggtgaagta agttgtttca tttgcatatt ggaataattt cgggcaaaat 180  
taggacaaac cacaatggcc aagttgtaag aagtggtaat gccttattat caacggtggc 240  
tttgatcagt cacaacgcac gaacgcactg ctaattaatt agatggcata tatatatctc 300

tttcgtcaat acaccaatga cccaaaaaag aagataatta gcattcccaa ctaacctttc 360  
 cttatgcagc ttgactact ttccgataca aacccatatg atcttgcttt acaaatacca 420  
 ctga 424

<210> 20665  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20665

tatgactgcn attcctgctg ttccgtgag caatggagtt cttgagtgaaggngcggcg 60  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntacaataa anananacaa 120  
 accatctaaa caatctctc tatttatctt acaaactacc tccttatcaa tattaataca 180  
 taaatccctt caaacactta aatctataac ataattcctt cttacatctt aataattttt 240  
 cactataaca ctttattaat tacaattatc cttatatact taacaactta ctcattttta 300  
 catcatctct tttcttctat ttatccacct cataactaat aaaaaatacc cccatccaat 360  
 acatcacatc ttccctaact ac 382

<210> 20666  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20666

nttgaagaat caagaatttg agggtaacc tcaagatggt gtcaaacttt atgaggtata 60  
 taaaacctta aaaactacat tagccaaatt tgataatgga acaaataata ttaacaaact 120  
 attagatat tgtagaagtt cctcaaaaaa atttgtaaat ggaaatgatg aaaaggtata 180  
 tgttcatgat gaagacaaca ttatctatta cttttgtgga aaaactagac acatgacatc 240  
 cagatgcaag gatcgaccaa gtaggtgcaa tcaatacctt catggctaac aaaaagaac 300  
 ccaaaaatat ttgggtacct aaggaaaatg ttattcttat tgcaatgtcc ttgaaacagg 360  
 aagaaatgcc tatcatggac ctggaaatgg ntgttataaa catgatag 408

<210> 20667

<211> 436  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20667

agcttatttg gtattgtata cgtaccaaca tattacttgt attcatttat gtgagcacia 60  
 gttttttaga tgagggttcaa aacatattat tatttaattt gattgaattt tccttctctt 120  
 tatttttttt aatatttagg ttatttgaat aatttaagta tcaatatctc tccatttatt 180  
 atctgcatat ttaaattctc ttcagacagt aatctttttt tttgttatte ttcttttctt 240  
 ttcccactaa taaaaaatct ctcaagaccc ctctgataac tntgtaattg ttcttttagga 300  
 aattattaaa agctttttata ttctataata attntagtaa tgatgttatg caagttttat 360  
 tacttaaaact ctttatagta atattttggg tgcaacaact tttaatgacc taccaagttg 420  
 nttcattaat attact 436

<210> 20668  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20668

tanagtacca tagtttcatt aattctcttt aggtcgtctg tttggcttgt ggataccata 60  
 ggctcccttg tgaatttaac caaagagtca ataattttaa taatgtatct ttgcgtagtt 120  
 caacatatac ttgcagtaat aaaaaatttg gtaattatta ttatacttac ttttggtaat 180  
 ataagttcat ttcacaaaca ttaatatact aatataagta tttaaaaact tagcatcatc 240  
 agttaaaaaa ctaattaatt ttagtggtccc tttcgatctg ataaaaatga actaattttt 300  
 agcatttgaa agtagtattt ttatttaaaa atatttatta tactaaaaat ataaagtgtg 360  
 ataaatattt ttttaataaaa aaatcatttt tatatgatta actataaata ctataaactt 420  
 atattggata tataatagag aaactat 447

<210> 20669  
 <211> 432  
 <212> DNA  
 <213> Glycine max

[illegible]

<210>	20670
<211>	214
<212>	DNA
<213>	Glycine max

<210>	20671
<211>	365
<212>	DNA
<213>	Glycine max

ttgcttttct	aaacaaagtt	tatacatgcc	agtcactca	attcatacaa	ctctcattca	60
tttcaaacac	aaccattcat	ttaaaaccaa	aacacaccac	tgaatatcaa	attcaaccag	120
ttcactgttc	aaacaagctt	tttgtacaag	caatcaacac	taaattaact	ggaatntaaa	180
tgactaaaat	ntaaatactg	aaattttaat	aactgaaaca	taaagcataa	actaaataaa	240
ctgatcaaaa	taaactgttc	aaaatgcaag	acaagaagat	aaagatcctg	tcaatcctcc	300

tacaggtgat cctctgcatg cacattaaga tccaacactg gagcggttgg tggatcctgt 360  
acagt 365

<210> 20672  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20672

ctangaataa agcttccttg gagtattttt aagttgttga aatattgccca aaatctaagt 60  
aagagcctcg tgtaaaatga cattcaattt cttataatcc atttcaaacc gaaattgtac 120  
tttaatatat gaaatgtaat aaaatgatga tagatttttg tgcttttggt ttaaacatta 180  
ttcactgagg agagaatttt tttccctgcg tcatggcaac cacattttta acttaagatg 240  
attgaccctt gattggaaat gagggcatgc cttgcattgc tagaaaataa gacatttgct 300  
attgatgaga aagtactccc ttagaatgag tgtcaaccac ttggtggcct aagaggggaat 360  
atacctctag tgccaacata tggggaatc 389

<210> 20673  
<211> 366  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20673

ttctttttat ttacatgga ttatcaatga tcttttaata tatatctgta ttcccttatac 60  
aatacattat nttggagtaa aatgtcaagt ttacatact tgacataaca gattgtcatt 120  
attctagtca gctatcaatg atctattata ttaatgcagc tcacaacaga ttcccttggtt 180  
tctttaatac aagcatataa ttctaagaca gatagtttgg ttaatttacg tccgtgctcag 240  
tcagtggctt gggatgccat ggtgccttcc aaaaagagga catgtgcagg tcgtccgaaa 300  
ccctcatctg ttgagaagct caccagagac ctgtgcacta ttcttcatga acaacagtct 360  
ttattt 366

<210> 20674  
<211> 366  
<212> DNA



<213> Glycine max

<400> 20674

tagcaatact aacctcacia agaagggcag gttttttaac ttcttaattt aactacaaga 60  
ctcttacact catttatctt tacatttttag cttcttttac atttacattt atattttaac 120  
tttgtttata acttttctac catttttcct tcacaacatt tttaaagcct tctatttagt 180  
tttttttttt gcctttattt tactttcaaa attcactgtt agataaattt aatcaatgtt 240  
cacactaaac cctcttcaat aactcgagat tctattattg agtaaaataa cttgatcaac 300  
aacgagtgat aatgtttaca attacctgat tttattcggc tatctagttg attcatttag 360  
ctaaca 366

<210> 20675

<211> 359

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20675

tgctttttat ccaaagctca tcttagtggt gaagctcctt cttccatggc ttattcccta 60  
gtggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtgtaa 120  
aatcaccatt aaaggacctc attgaagctc anagatccag cctccataga agccccacia 180  
gcaagcttcc atcaaaacct tttgctattt caatttgga ttccttccct aaaatactag 240  
agatcttctt gatgttgat cttgtattct tggattgggt tcttgaatta aacatgagaa 300  
gcgcatnttc ataagacatc aaatcatcac gatcatatgg cgtcatcaaa acatcaaatt 359

<210> 20676

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20676

gatgcagatg ggtttgtatc taccttatca ctctctaat gactatggca tcatttctgg 60  
cgctaaactg ctgggaattg gaggccatct tctcaattaa atttctggct tcaacaagaa 120  
tcattgtctcc cagggcttca ccaactggcag catctatcat acttctctcc atattactga 180

gtccttcata aaaatattgg aaaagaagct gttctgaaat ctgatggtgg gggcactggc 240  
catagtttct taaatctctc ccagtactca tacaggctct ctccactgag ttttctaata 300  
cctgagatat ccttcctgat ggcttgggtc ctggaagcan ggaaaatttt ttctaagaat 360  
actctct 367

<210> 20677  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 20677

ggctatctct tatcttgaga caccatactc ggggcaaagc gtgaaaggaa gacgacatcg 60  
gagtcagcca gcgtaccctt aagacgtgct gctacggaca gcgaaccccg gagcacacga 120  
gcgacgcgaa aagcgacgcc agcagcctag cgcaaggccg cgcaacccgc gcgattacca 180  
accccagggga accagggacc gcgcagagaa tgcagggcgc ggcggaaacc gcgaccgaac 240  
cagagcacac agcgggtggac gcgagtggtc ggccgacggc gcggcagcga aacagaggcg 300  
agccgcggcg aaaacccac gggggggatc ggctctgcag gaccagacgc ggaggcaaaa 360  
aacgggcaga gcactcacac acaaagacag ggaaagccgg ccagcgcgcc 410

<210> 20678  
<211> 331  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20678

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gtctttcttt gtctaacata cacacttggt caaactcatg aaaaggaaca caaactccat 120  
cataatcatg ccttcaattc aaaataaagt catacaccca ttttcacaaa agaataaag 180  
tgttttatat gcctgtcatc aaaatcaagt caaacttgtc catatgcttc agaataagca 240  
aaccaactat cctccataga ctagcagtga atataaatat gaaaaaata ctgtactana 300  
accataatta aaataataat aaacccaaaa g 331

<210> 20679  
<211> 432

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20679

atcttttacc ttctgaaaac cgatagtaaa tgaatgggtt agtgcaaata tgcccaacgt 60  
 ggtacttttg gaatcaaggc tgctaataaa aaaacatata ttttttatgc aagttgtagg 120  
 ttttttcctt ttccttgta ttattacaat tttactttgg gatatgtact attgtgttgc 180  
 tttcatgaga tttcaacatt tagcttttag attgttattc tgaaatctga aaataagtta 240  
 ttcattgtat ctgctcttcc ttgatataaa gtggaaagt aactaggaaa agctcttagt 300  
 caatggctnt ttccagtgtt tttcattgat atggatacaa gtgcangtat tgcattgaat 360  
 ttctaaagga atgggcacga gaggatattt atatangaaa atntanaaca tanagtacta 420  
 acatcataat at 432

<210> 20680  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20680

ttgagccaaa atcctgactc accataaacc ttgtcccagt gtgagaatgc caatccttac 60  
 cctcggaagc aaaaaaaaaa aggagaagag aaggaaaatt tccaatcaaa gaggaagcat 120  
 aaaaaggaga gaaggaaaat ttccaatcaa agagaaagaa aagaagagga aagaaaactc 180  
 ccaatcaaag aatgggagaa gaaaaaaaaa aaaaaaaaga agttaaaaag aagaaagctc 240  
 ctgggtcaaag aaaccagaag aatgtgcaga aaggtctttt gaccggacga tatctgaaca 300  
 atacagaatt gtcaccaa at gaacaaaaaa agaaggaaag gaaatcacga cctanaatgg 360  
 tcttctccct ttaattacca accaaaatcc c 391

<210> 20681  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20681

agcttctaca ttcaatttcg agctnttcga tatattacgg gactcaatcg gacatccgag 60  
 taaaaagtta ttgtagtttg aatttgctca gggcttcggt attccatttc gagcgtctcg 120  
 atatattacg ggactcaatc ggacatcaga gtaaaaagtt attggtggtt gaatttgctc 180  
 agagcttcgg tattccattt cgagcatctc gatataattac gggactcaat cagacatcgg 240  
 agtaaaaagt tattgtagtt tcaatttgct cagggttcg gtattccatt tcgagcgtct 300  
 cgatgtatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaatttgc 360  
 tcagagcttc tacattcaat ttcgagcttt tcgatataatt tacgggactc atcagacatt 420  
 cgagta 426

<210> 20682  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20682

ttgagaaaat tcaaacgaca atatctttnt actcggatgt ttgattgagt cccgtaatat 60  
 atcgagacgc tcgaaattga ataccgaagc gctgagcaaa ttcaaacaac aataactttt 120  
 tactcggatg tctgattgag tcccgttaata tatcgaaaag ctggaatgtg aatgtagaag 180  
 ctgagagcaa attcaaacga caataacttt ttactcggat gtctgattga gtcccgtaat 240  
 ataccgagat gtcgaaatgg aataccgaag ctctgagcaa attcaaaca taataacttt 300  
 ttactcggat gtccgattga gtcccgtaat atatcggaac gcttgaaatn gaatgttgaa 360  
 gctctgagca aattcaaacg acaataaact ttactcggga tgtcttgatg agtcccgtaa 420  
 tatatcg 427

<210> 20683  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20683

agctttttgt gagaaagcgt ggaagagtca gtcttcttac ttttgtttgt tgaccacaga 60  
 gtggtacctg gagatatgtc gcgaggggtca ngagaccttg gggacgtcag gtgggggtgct 120

attgcccaaa accaagcttg accaatcccc acccaacccg ggcatagtca gtcagtggga 180  
acctgtgatg tacctaaaca gacgagctcc tggcagtcaa ccaataaaag aacaaagacc 240  
acaaagcaag gaggcttgtg tgggtggctgg ccagctatga atcttgagtg gtatctggaa 300  
tttggcctct ggtaatcgat taccaagggg gtgtaatcga ttacaaggct tnaaaatgga 360  
gataggaagt taagatggcc tcttgtaatc gattaccaag ggtgtgtaat 410

<210> 20684  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20684

tgaagaggat gctntaatgg aggatttgaa agagagaatg tgggagcacg aaattgaagg 60  
aataaaagag ggagagaagt ggaactttga agtgtatctc ataagacatt cattcatcaa 120  
agttacaaca agtgttacac atgcttctat ttatagacta ggtagcttcc ttgagaagct 180  
ttcttgagaa aacttccttg agaagctaga gcttagctgc gcacaccct ctcataactt 240  
agccacctcc tgagaagctt ccttaagaag attcctaaag aagttagagc ttagctacac 300  
atacctctct aatagctaag ctacctcct tgagatgaga agctagaact tagctacaca 360  
cccctataa tagctaagct ccccccatg acannaaaca tg 402

<210> 20685  
<211> 96  
<212> DNA  
<213> Glycine max

<400> 20685

aaaacggaga gaagttgaac ttttaagttgt gtctcacaag actctcattc atcacagata 60  
caacaagtgt tacacatgct tctatttata gactag 96

<210> 20686  
<211> 80  
<212> DNA  
<213> Glycine max

<400> 20686

tgcttgacag catgacgggc atgtatgatg cacgaatgcc tatctcgggtg tcgactatac 60

tgtggatgaa tactcttcta

80

<210> 20687  
<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20687

agctnnttaa ctatctacag ttacaactct ctctctctct ctctatatat atatatagca 60  
atgcaagttt taaaattgga agtcctcggt ccaatcactc gcagtacaca tgctaaaatt 120  
gtaggatata aatgttgaat caatataata tatttttggt aagtggcaga aaccgaaagt 180  
tgaatctatc aaaatcaaaa tagatgctgc agtgtcacgt cgtgggtcat gaggaatatg 240  
ggaaccataa ttagatagga caaacgtacg aagaagcaag gtgacgcaag tacccaacat 300  
agttagttgg tcatctcaca ttcacacttt acctttgtca gngccacata aagggtccga 360  
atatgtgaat a 371

<210> 20688  
<211> 429  
<212> DNA  
<213> Glycine max  
  
<400> 20688

actaagctta caacattctc gtgcgttata tccctgagta actgctgtat caaatgatat 60  
tcactcaaaa ccaatccaaa ccgccaacc attaaataat ttttttttta taaaaaaaag 120  
cctcctctgg ctcaagcctc ttcaagggtt ccaaatacta gaaactacag agaactaaca 180  
aaagaaaagg aaaatagata aatgaaaaaa aatggcaatt tcttcagaaa ctcgaaatta 240  
aaaacaatct aagcgaattc gcttcgaatt tcaaaattac aacttccta ggtgtaatta 300  
agcaagcaga gaaaggaata ccatgatttc acgtatggcg gtgggagaga caccatcgcc 360  
atccttggat tggcttgaat tttttatggc gaatggattt ccgcgattgg tggaagactt 420  
gatgcgagc 429

<210> 20689  
<211> 393  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20689

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caagtaaaag gaccacctgc aacagaaaga ggcgcggccc aacgcacggc tccagccgct 120  
ccccggccag ttaataatac agcccccgac ggcacctata aatatgcaca gcacccgccc 180  
ccgaaagata acttctcccc tattcccatg gcatactccg agttatggcc ttcattattg 240  
gagaatcatt tgggtggtggc catacccggg aaggtcttcc agccacccta cccaagtgg 300  
tacgaccgg gtgccaagtg tgtgtaccat agtggagctc ccggacacaa tattgactcc 360  
tgcacccgt tcaagtataa agtgcagcac ctg 393

<210> 20690

<211> 397

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20690

tcggtgggat caaggagtat accacatatt caacaagatt gttgaagact ttaagcacac 60  
ccaccctaata aaccaagggc tcagctgttg ctaaacaat ttttttagca aaactaactt 120  
gaaagctacg aaggggtgctt tagaacaag tttgaaggaa gctcctctag tggacctgga 180  
cgctattaat aaaaggaaat agaagaggct aggcaaacc attgctgatg aagaccaata 240  
tctaaacaac tttggtctta cagaagattc agaagattat agctaagcaa tagaaaagaa 300  
aaaagaccaa aaaataatca caaaaagaag aagaagaaaa tgaacttatt gctanggagc 360  
acgggatgaa gagaagacat gagaatgttg cgtctac 397

<210> 20691

<211> 455

<212> DNA

<213> Glycine max

<400> 20691

agttgctcat gcattgcagg cactgcagct agtaccaggg atcctatcag ccgacctgcc 60  
tgctgcagct tttcattttc ccagctcatt gtgaacactg aacatgatat ctggcatctg 120

ggcgtattac tccggttctac tagaactgct gatctggcta atgactgact gacgaatcaa 180  
 tggttactgt agcggtgaga tggtgacaaa gtctttgact ctctcgagct atgagcttgc 240  
 ctctatgact gtctagtaac acagatctag caagatagca acgccaactc ccgagttgct 300  
 catgctatgg ctctggtagt gacggcaaag cattcgcaaa gcgctcattg ctaatgactc 360  
 ccgtgagact gtgtcatatg cacaagaggg atgtgtcttg atggaaaact gggatatctg 420  
 ttactagtgt aggaaatata ttatgagaca cattg 455

<210> 20692  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20692

tttggaatga aaatggcggtt atacttgctt ggtntgacat ttatcatgata aggtggaaat 60  
 ggatatgtgt ttcatttttcg ctcttggtta acaatcattt tcctccaact caactgctcg 120  
 tggcttttagt aaaactagaa gtgttagttg gagattgcat ttgtcaaagt ttgcaatttt 180  
 ttgtttgcct ttatgttttg aatttaagtt cctagatact gtttgcgagg atgggacagg 240  
 atcttggtga ttgttcgatc cctctttctc caaataaaat attgcctctt tggaagtatc 300  
 atttggtgtc ttatttgcca ngcgttacta agttaaggga atttgtttct ttactggctt 360  
 ttctaaatca atacagctgc cgagtaatgt gaataagatg taagttgctt cat 413

<210> 20693  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20693

agcttggttc gaggtactta cccgttgaag atcgaagaac gatgaagaac gaatgaagaa 60  
 cgtcgaagaa cggttganat ctttgcgaaa ttcttcacgg aaaacgttac ggaaacgttt 120  
 cggaagcgcc tcggcttaga ttntcttcac ggaacatat ttccaagca aattcgaaag 180  
 agagagaagt gcctaattggg ctgacccctt ccttcttgcc ttctccctt atttatagca 240  
 aaatagggga ggtggttgcc gccagctcg cccaggcgag ctcagctcgc ccaggcgagc 300



agggttgctt cctccagaag caaccgcctt ctggagggaat attccggagg gcccaagtgg 360  
gcctgggtgc tatntgcacc cccattttta ctaagtacac cccctctag ctgtttttgg 420  
tgattctttt ttcgtaa 437

<210> 20694  
<211> 335  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20694

gatgaatcaa gattgattca aagagtnttg atgatttttc tagatgactg accttttttc 60  
tcaaaaggca agagcacttc atgataaaaa agactgatga tctccagaat caaaaaatgg 120  
gttcaagaat gaattcagaa cacttcaagg gtccaatgga aatttgattt ccagaatcaa 180  
gaattaaggt tccagaattc aggtcccaga atccatatct agaatccaga atccagagaa 240  
gaccttatcc agaatantat ctgccagctc ccctaactga gttgacatga attttctcga 300  
accttttacc agacttttag tctctgggat cgata 335

<210> 20695  
<211> 427  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20695

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ggtcagaact aaagaaggag aggaggaaac acaaaaagag aaagagaaga agaaaaaaa 120  
gcaaagctga ggcgttgcca aatcgcaacc gtggatcatt ccctacatca tttctctcgc 180  
tagccttgta cccacgcaa cagtcgatta gtttttctta agagttgaat gtaatctatg 240  
tacccttata ggccctctgt gatattatgt gtgtatttat cttctcccct ttatcgttgg 300  
taatttcgct tcattcgtaa ggcttaattc tagtcgatca ctagtgtcat gaaatttggt 360  
ttttagttag actggangga ataaacaaac caaatgaaa aaaaatcatt ctaactattg 420  
atcgagt 427

<210> 20696

<211> 301  
<212> DNA  
<213> Glycine max

<400> 20696

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gggtgctattg cccaaaacca agcttgacca atccccaccc aaccggggca taatcggtca 120  
gtgagaacct gtgatgtacc taagcaggcg aactcctggc agtcaacaga taaaaggaaa 180  
acaagaccac aaagcaagga ccttgtgggg ctggccagct gtgaattttg tgtaatatgt 240  
ggattggggc ctctggtaat cgattaccaa aggtgagtaa tcgatacaag gcttaaaatt 300  
g 301

<210> 20697  
<211> 335  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20697

ttcttgtatg attatggggg acccatcaca tgttggtacta ggtggcggtc gggcgatggt 60  
gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tggtgcccac 120  
ctccaactga gctcacgtac tcccacgtag cccatatact cgttctcttc aacaccgggt 180  
cccatcaat cctcccaagc tttcccaaca tccaagtaat tcaacaatca aacaacacaa 240  
actatcacag ccaagaaaac agggcaaagg cagaanactc tgcccaaaac accaaccaaa 300  
atcacagctt ttctcactta aagaccccag taaca 335

<210> 20698  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20698

tagctagata gattgtccaa gatggaagat acttttaact attttatgca tgtatccatc 60  
tcaaaccaaa agaacattga tgcttctatt aaaaatctag aggtttaagt gggacaattg 120  
gcaaaacaaa tgtctgagca tgaaagtgga tccttctcag caaccacaaa agtcaaccac 180

agaaaacaat gtaaggcagc tacaactaag agggggggcag tagttggttt gaagaacgaa 240  
 agttantttc gcgagaaaag acaaatgaag agttgtaaaa atgagtgatg aaaaagaagt 300  
 agtcgaaaga gagaaacaaa atgaagtatt agctaaagag atggagaacg aatgagtga 360  
 agtggaggag cataaatnga agaaaacaac atctaacaaa ggcaaagttg tactagatca 420  
 tccaccaatt caacatct 438

<210> 20699  
 <211> 363  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20699

ttgcttggtta actaaatgag ctaagttata ttntaatata attatattca ttagttcat 60  
 gataaagaat taattntact cacaatattt gtgtgttaca cgtacatatt aaaggtgggg 120  
 caggagagga gaggaaactt acaaaagaat aaattacat atgtttataa aatataatta 180  
 acttatttca agttttctat aatttataac gacaatttaa tcttattcgg ttttttaaat 240  
 atagaaatga tttatataaa aacatgtata tatgataaac attaagtgtt taattaaact 300  
 atntatctaa gcacataaac atcaaantta aaaaataatt aacctttaaa atcaaccgat 360  
 tac 363

<210> 20700  
 <211> 349  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20700

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 atacacaata cccttaagct aactgacaaa caatttttgg atgaaattta ctaccggcag 120  
 cttttcacat atgcaagtaa tcaattttgg tttcaatgta tgcaattgaa agatgatgct 180  
 gatgttaaca caatgttaat gggtaatcat gaattttcgt ttgttggtct gattgagtta 240  
 ttatgtancc tactacaccc cacatggtat tttaaactta cttcaagcta ctatgatccc 300  
 tacttatgat gcctgctat attacaatgg gaagtggaac atgtcatgc 349

<210> 20701  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20701

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 nccttcccca aactggccaa acggacaann taagactaaa tacaatgact aatgcaaact 120  
 gtccgcaaga gtcattgcat tcagtctcat acggaaatct aatgttcact caccatgaac 180  
 aacaattgtt tatgtagcan ataacagtga tcacatacaa caacatacag aagggtcatat 240  
 tctattacag acaaatatag acatcagcag ttgtttatgt aactaatgtc atatgctgtg 300  
 tctcaagggt gcttatgctc ctatattgta gttgggtata tgtgtgtgag tatgtatcat 360  
 gaggatgtgt gagtgttgat attaacta 388

<210> 20702  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20702

aagaccagac tatatgaggg atccnacatg tggtatagtt attatcttaa gggctaccgc 60  
 ggctacgagc tngcaagact aagaaaactc gtcacaaaga cgacatcctg aagttgatga 120  
 ataatgcctc atggaatagg gaagaaaaaa aaaggagaa gaacgggtcct ataccgcctc 180  
 aactacccca agaagaagat gaggaagaaa acccgggtga accaccttaa cctgcatcac 240  
 aacgacatga atacgcgcta ccgaccaga gtctacgtca agacgagtaa gagcattggt 300  
 ggacaaaacg aaaccctgac catggcctac tggaacctgt aacctggaaa agcgacaagc 360  
 ggaacactgg ccaggcaatg gataaatatc caaagacgac aaagcatact gggaagagac 420  
 agcccccg 428

<210> 20703  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 20703

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caagttagag ttgtgagatt agggaggcat gagtcgcaag agcctgagag cgagagtcgg 120  
tggggggagag gaaattcaaa ttcttagttt ttaaagagaa tttgaaattc tcctatttga 180  
actaattaaa attccttata caaataccag aattttaatt gctccttaaa cttntatcc 240  
aaacagctta ttttacgggt gagtatttta aattcttcaa aaaaatgaat taccctattt 300  
aattccccca tccaattgca gggtaaagga nagttacatt cttttatcaa acaaaagaaa 360  
ttttgaggaa ggagtggagt atcata 386

<210> 20704  
<211> 436  
<212> DNA  
<213> Glycine max

<400> 20704  
tagcaaattg acctgggtat tgctcagttt cattatatct tccgtaatac tcatcacctc 60  
tatcatatct aataattttt atatttatgt ctaattgccc ttttacttca ttgtagtaaa 120  
tttctaaggc atccattgcc taagaaatct cgggcagtaa gtagacataa ctgtaacgtg 180  
aataatcatc aataatggtg ataaagtatc attcctttcc gaaagaacta acatcaaaag 240  
gtccacaaat tcaatatcac aatttcaaga agctgagtg c ttcttgtagc tcttttcttt 300  
gtatgttttg cttgttttcc ctttaatacaa cccacataaa tatttagatc cgtaaaatct 360  
agataaggaa gaatttcatt ctttattaat atttccatcc tttctctaga aatgtgacct 420  
aaacgtttat gccaca 436

<210> 20705  
<211> 302  
<212> DNA  
<213> Glycine max

<400> 20705  
agctttttcca aagaagatgg tgtcatccgc aaactggaga atattcactg cgaccttggt 60  
cttccccacc ataaagctgt gaaataagtt tcttgacact gcttccctca tcaatcctgt 120  
taacccttca gcaaccaaga caaataataa agggggccaag ggatccccctt gtctcaatcc 180

tctttgagggc ttaaattcat cagttgggct tccatttaca aggatagata ttgaggctga 240  
 tgtgagggcat cctttaaccc aaccaatcca cctttcatga aacccattc ttctcatcat 300  
 at 302

<210> 20706  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20706

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 ttttattcgt taaatgtaga tttctaaaag gcctaaaatc aacatgtagc tttattacct 120  
 ctttcaaaaa taaagagatc atgaatggtc caatgcctta atgttctctc tattttcaaa 180  
 aagaatcgaa agattgttta atgggtccat gccttaaagc acctttcatt caataaaaac 240  
 atacttgac aaaggataaa aaataactta accaacgctt agttctcaaa gaactaagta 300  
 ggtctgattt ccttatcaca attgaggaat atgtangagc aagggaaaca cctcgtcga 360  
 ccacaaaaag ataaaaata taaaagacat tggaaataac ataaaattga tgtcatattt 420  
 gcacat 426

<210> 20707  
 <211> 378  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20707

agggaaacgca aaagaacggc gggaagaaaa aggggaaccc ccccgaggat gtcagagct 60  
 gcaaccanag cggggcaaag cacggaaaaa cacttcattc ttacaccga gaggaaggg 120  
 aaacaaagag cagaagccga aaaaagagga aaacagaaa acgaaaagga cggaagaggg 180  
 aggaaaaagg cacggaacga aaacgaaggg cggaagaaga gagaaaagga ggcacacgag 240  
 caggagacgg aggaagaaca gaggaggcgc gggggagagg ggaggcgga gcgaaaaaga 300  
 cgaaggaata cgagggggaa gcaagaaacg cggcggggca agagaaaggg gggggaacaa 360  
 ggggaacaac gaagcaag 378

<210> 20708  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20708

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 aattttatatt ttgacagggg atccgcgggg gaatttcctt cccctgcaca acggtccaca 120  
 cactagtgtg gagctgccag agacgggtaca aatctgattg tacagcatct ctctcaggat 180  
 ttgtgtacac aacggggaga ctacgacggg ttatcgaaat aaaaaaaaa cccccggttt 240  
 tgaatttaac tattctgggg gaaagaatcc ctatggctct cccctggag tttacctgta 300  
 ctgatactat ctatgctgat attgtaatag tggccctatg ggtatatgct tgtg 354

<210> 20709  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20709

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 aatctgcaact tgtcgccata ctctatggtt tatgctcctc tgttgaccac cacacagacc 120  
 tttgcccttc tgtgcagcaa tctaaagcaa ttgaacagcc tgaagcttat gctgcaaaca 180  
 tctacaatag acctcctcaa cctcagcagc aaaatcagcc acaacagaac aattatgacc 240  
 tttccagcaa cagatagaat cctgngtgga ggaatcatcc caaccttaga tggtcgaatc 300  
 cttcacaaca acagcaacaa caacaacatc cttattttca gaatgttggt ggccctagca 360  
 gaaccatacg ttctccacct atccagtagc aataacaaca acagcaacag 410

<210> 20710  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20710

[illegible]

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atgactcctt	aatcgctcca	cacctgcaac	aagaaagggt	agaagataaa	tgctggttaa	120
cacgaaaaga	aattgtaggg	aggctgccat	ggaaggcaag	tcaaaggaag	aatttgacan	180
ttttaggtaa	aggaggcttc	caaacacaag	accagttcac	tagaaaagaa	gaatgaatgg	240
caggctctcg	gattaaccac	tcgaaggcat	atttagttga	aaagcacccct	aaactagatg	300
ggttccatat	aattntgtca	agcatatgaa	taacaagtgt	ggtactcatc	attttgagtc	360
taatattant	tggtagagtt	gataaacagt	gtcccaattc	actgccctca	atggaatgta	420
ttatgc						426

actaagctat aagtataaat tattttttat tatagtaaaa ttttaattta actaattatc 60  
tgcgataata aacttataac ctgttaatat attaggctct accgatataa gacttagttc 120



acatattttc atcttcctct catgctttta ataacaataa ttttgatttt tataaattat 180  
 attttgattc acatcaattg ttttctcaat tgtgtctaaa cctattgctt catgtaaaga 240  
 aaagtttagag ttaccacaag tctgataggt tatacaaata nacctgttgc tttatgtaaa 300  
 gaaaagttag agttatatca aagttttgat aggttataca aataacgcct attatTTTTT 360  
 catgtatgag atatgagata agaacgagtc tattaatagg ttatacaaac tttnttcatg 420  
 tataccaacg ttctatgaga ta 442

<210> 20713  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 20713

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 agcccggtga cagcgagaga tttatgtcat ctccgcgct tacaagatct gtcatactga 120  
 gttctgagtc acgtgacgg gcggaaatac ccgagtgggt atccgtataa actttttgtt 180  
 ggttgtaaga cgaaaagcct ggtagcacgc agagactaac gtcgtcttct gcgcccttcg 240  
 tcaatcgcg cgcacaagcc cgtttactcg cggatgatcta cgtcatcttc cgtgctcaca 300  
 agatctgtca taagtacttt tgagtcacgc tgacggggcg aaatacccg gtggttatcc 360  
 gtatacactt tttgcattct gtaagacgaa aagcttgata acacgcagag actaacgtcg 420  
 tc 442

<210> 20714  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 20714

atgcaaaagt tatacggata acctctctgg tattttcgcc tctcagcgtg actgcaaagt 60  
 cagtatgaca gatcttttga gcaagggaaga tgacctatat taccgcgtgt aaacgggctt 120  
 gtcagccgtg attgacgaat ggcgagagg accacgttag tctctacgtg ctatcaagct 180  
 tttcgtctta cagaacacaa aaaggttatt cgggtaacca ctcggttatt ttcggccatc 240  
 cgccgcaccc cagctcacat gacagatctt gtgagcgcg aagattacgt acatcttcac 300

<210> 20715  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<400> 20715

agcttttccc taatagagtg ctttggataa gaagcttaga gaggaagctt caatggagga 60  
 agagaatgag agagagagag agagagagag tccggggggg ggggtgcgaa ttgatggaaa 120  
 ttacggagag aagttgaact ttgaagtgtg tctcacaagt ttctcatcca tcaaagttat 180  
 gacaagtgtt acacatgttt ctatttatag cctagcacat gggaaacttc cttgagaagc 240  
 aaggaatgta gctctcttgg gaagctagag gaagaaagct 280

<210> 20716  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20716

tactcaagct tgcttgcgga gcttctatgg aagctggatc tttgagcttt ttgatgttct 60  
 tcaatggtga tttttcacca tagagatgca gcggaaggca aaggagaaga ggagagggga 120  
 ggcaccatcc actatggaat aagccaagga agaaagagct tcaccaccaa aaattgcctt 180  
 ggataagaag cttgaagagg atgctttaat ggaggaaaag aaagagagaa ggggggagca 240  
 cgaaattcaa ggaataaaaag agggagtaac tggactttga agtatgtctc acaagactct 300  
 cattcatcaa aggtacaaca agtgttacac atgcttctat atatagacta ngtagcttcc 360  
 ttgagaagct ttcttaaaaa aacttccttg agaagcttct ttgagaaaac t 411

<210> 20717  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20717

agctttgttt gttttgtgat tctagagaga gaaaggtcca agttccagag agttttgaga 60

gattttgctg tgtgaagatc tacagagacc agagcttgaa gcggaagccg ttttgagagc 120  
 ttgagatgag tttgtgagtg gttgtgagat cctagagggtg aaggagacat cctcacaact 180  
 tgtaattttg caatctttca tcttgttctt ttctttgttg taaaggaggc ttcccgggta 240  
 tggaaagcta aaatcctctg ttggatcttc cttgtaagta cttgatgtaa atatcttact 300  
 atctatctaa tgatgtttta tgtgttcttt gtgctatcag cttttcattc tagtatgcct 360  
 ttaccttgat catatagatg catgctntgg taggggcatt caacagtgga nactgggctg 420  
 attctgatga ccttga 436

<210> 20718  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20718

gaaatttgca aattgtttca gaaatttatt tagtctctgg taatnganca catcctctgg 60  
 taatcgatta ccagagagga aatagcatag ttttgaaaag ataattgttc ttaaaatttt 120  
 tttgtaaaat atttccttta gccaaacctg tgcagcatca attaaggaat tctttctaag 180  
 atcctatcaa ctaagtatat cgttcttctt gcatttctga attcttgact tgaatcgcg 240  
 tttctttgga tcatcaaaac ttcatatcat atatgcttct acaatctccc ctttttgatg 300  
 atgacaataa tctaaaatca agataaacga tacaccattg ataatgcgtg ctcaaaccc 360  
 ttacaccccc ttaagattga agattatgcc taagtctctt cnccttttg taacatcaaa 420  
 aag 423

<210> 20719  
 <211> 425  
 <212> DNA  
 <213> Glycine max  
 <400> 20719

tttctttttt gtttagagtca gaagtgctaa tgacaaatac ttataagttt gagaatttag 60  
 tgaaacttga tacgttatca agaaccggac gtagtctcag tgatagaaat gaactaatat 120  
 aaaacttcat atgtctaata tttatctttg tgtgcatctt atctgacctt gggattgaat 180  
 ttgattttgt tttgaaaatc tgctttgata acatctatct caattgtctc gctatgtttg 240

gttgagaaaa tccattatatt gtctctcaaa gttatatttca gatggtaagt tgtgtgtttg 300  
 caacaaagtt taataaaatt ttaaaatcac aattcaatct cttcttgcca tattgcctta 360  
 catataacat gttcattatg cttttatatt gtcagtatct cacatataat ttactagcac 420  
 tatga 425

<210> 20720  
 <211> 567  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20720

ccgccactca cacacccacc accacatcan acctaagtac tagagtaact tgtgaccaat 60  
 anacnaaann naagggcgag gtttgaacct tgagacantc gcananacgn gacaccatan 120  
 aanacccaag cccgctgcac cattgacaga attaaccaaa aattttacct cttttggaca 180  
 ccagaggcag agacaacat ctgtcaattg cacaaagtca tgactctcac tccagcgcta 240  
 gctcttccca atttccagct gcccttcatt ctggaaacta atgctaacga cactgggtata 300  
 ggagcagtac tacatcagaa tggccatcca ataacatttt tgttcaagaa acttgcacct 360  
 agagtggaaa agaaatctga cgcccccaac agatgctagc aattgttgaa gctatagcta 420  
 aaatcaaaca ctacctgctg ggacacaaat ttattaacaa aactgatcaa aaagcttgag 480  
 aacaatgacg gaacaacccc tacagacacc ctgacaacaa cagtggtaac acaagttttg 540  
 tgaaataatt ggcgactgac acaaggc 567

<210> 20721  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20721

tcttaccact atttactgat gaatactgta gccaatgatg cgcatatcgg atatggctga 60  
 catgcacaat attgcatttn cgcgtggaaa attgtgaact aggacggtct gaggctacga 120  
 gactgaatac aatactgtag ttcccccttt gttacacgat cttttgcgat gctggtgccg 180  
 ccctaaatgt catctgctcg aactgaacag tgccgtgaat gatgataaac cattttataa 240

caggatatccc tggctgatac aacaagtgct gaaaatcgta atccgacacg caatgatggg 300  
 ttccacacat aggatacatt catttttgcg gctagcgctg caatgactgc tgctgggtacc 360  
 ttgctgttgt tacaccaaata aacgctaagc aaatatctga ccgacatcgg gaaaccc 417

<210> 20722  
 <211> 554  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20722

acgcacacac gacgcgcgca caacgtacac gtgagacgat ataaagaggt gagataactca 60  
 ttattantgn acaaaaaanaa ganaggagga atgagncttg agaccctga aacnccgtga 120  
 caccacanna nactnaagct tgggagttgc tcaaacaagt tgagcctttt agagctctta 180  
 gctttgnac acaagtgcaa caagagatgt aactacttta tgcccaaaa aattaccagt 240  
 gttaaaactg attccttcat ttgctcattg caggaagggg ggcctacaac attttccttg 300  
 aaggactttc ttaaaagtca aagacaagaa gtaaataatcc acctagacgc tggggaaaga 360  
 acatgtgtac attgtgccgc cccgcacac accggactgg tgcattgatg atttgatcac 420  
 tagtgaaaag gtgccatcga aacttccgca caattattgg gaacagacta caagactttc 480  
 gggacaactg cagtattacg aataggggtac ataaaacgga gaaaatcgaa ttctatcaaa 540  
 tacacaatat ttcg 554

<210> 20723  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20723

tatcttattt tccgatcgcg accctctgtt catcagtgga ttctggcagg agctntttta 60  
 gctcagcggc actcaccttc gtatgagttc agcctaccat ccacaaagtg atggtcagac 120  
 tgagggttatg aatagagtaa ttgagcagta tttgcgcgct tttgttcacc gtcggcccg 180  
 aaattggcgt aaatacttac cctggattga gctctcacac aacacttcat ggaattccgg 240  
 cacaggttcc acgccttatg agattacatt tggacgataa cttcttcat taccggaata 300

catctcggga acttcanaat ttgatgctgt ggacgaatct ttatacaccg agaggaagtg 360  
 ttcattgcat tcgtagaaat t 381

<210> 20724  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <400> 20724

tccgcttgct gaagatgtgg acaaataatc actatctggt tctgatttat aaacatcaag 60  
 tcttgatta tctatgatag tttcctcttt ctttgactca ccaccaccat tcatctcaca 120  
 gatgaagaat ggtgaagttc cttgatcaga gcttgaaacc gaagaagtac cagcttccat 180  
 tgtagtaaat ggtgtcccta gctcacggct gctagttgga gtgacaactg gtccttttat 240  
 agaatttaaa gaatccccct ctcttcctct cgtttccaag cattctaatt tgttcagaaa 300  
 gtaatggaca taattcttca caatccctct tttgtgttca accaaattca agcggagtac 360  
 ctagtggttg gaatgcttat aaccacgatg tgcaactgcag tcttctctgca ttgttttctc 420  
 at 422

<210> 20725  
 <211> 338  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20725

tatctttgct tttcaaagct tacagaataa tgacttanaa cgtagccaaa tacacggctt 60  
 aaaataaaag ataataataa tctaaatcta ggaaggtggt ggaaggtcga agcaccgacg 120  
 aagataactc acatcctctt caagctgagt gatgcgggca tccattcctt caaagcgagc 180  
 atcaatggca tctatgcgac catccaacga atcaaagcat tcgccatcat gcatgacggc 240  
 tgaggaatca tctcgttgag gcggaggaga gggagtatgt tcgtcttgcg gaggttgccg 300  
 gttcttcttc aaccattgcc catgcatgtc caccgtag 338

<210> 20726  
 <211> 411  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20726

tgacttgagt catcaagaga ttatacaata tgttgacaca tgtcnctgag tttcaacaat 60  
tatcaatcat ggttgaatca tctatctttc aatctatctt tcaatatctt ctttcatctc 120  
tttaaactct ttctataaaa atttctgatt catttctcct catctttcta aaagtttttt 180  
tgttcaaata ctttctcttt caagaaaagt tctttgatca aaaacttggtg ctattcatct 240  
ttttcattct ctccctcttt ccaacagaat gaaggactaa ccgcctgaat tcttttctat 300  
ctgccttctc cctttccaag agaattcaaa ggactccgtc tgagaattct attgattctt 360  
ccctttccct taaacaaaat atttcaaagg actaaccgcc ctcaatatct t 411

<210> 20727

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20727

tgcttgact ttccagtgat ggaatgaatc catatggcag tttaagcact caacacagtt 60  
catggcctat tttgctagta atttaaaact tgtctccttg gttgtgcatg aagcaaaaat 120  
gcatgatgtt atctatgatg atatcaagcc caagacaact aggaaaggac attgatattt 180  
atctcagtcc cttgattgaa gacttgacaa agttgtggga caaggggggtt actgtgtttg 240  
atggtatcaa aataagacat ttaagttgcg tgcaatgcta tttcgtacca ttaatgactt 300  
tccagcatac gagaatntga gtggatatag tgtaagggc catcatgcat gctctatata 360  
tgaagaagac acaagccatg tacaattgna catggaagaa aatatatata ctcggcattg 420  
cattttcta 429

<210> 20728

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20728

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tttcaaagat cccaacgggtc agatcatgga caagtgtctt gtgaagttgg agaccaaatt 120  
 ttgaaaagat ccaacgatta aagaaggctg ggcagaattt ttaccgaggc agcttcatgt 180  
 agctttctct agaagcttca ttaagaggct ttctctagaa gcttcctcgt ggcttctttg 240  
 agaagctaga tcttatcttc cacacccctc tattaactaa attaacttcc ttaaaaataa 300  
 ttacggatga gaataacgca acaaataatc taacatcaaa cataattact aataatatat 360  
 agatatatat atcagggtgt tacacagnca atatcggnc cttctcattac tcatcaccca 420  
 atca 424

<210> 20729  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20729

tgcttctaatt ttatatTTTT agaccaaatt tcaattatta acatttaggc cattaatgag 60  
 tcaaccatta ttgattaga gatttttctc ggaactattc taattcttcc taaactntag 120  
 ctttaaaaact taagagggtta accatggtaa ggtatcctat ggtaacatct cattntctac 180  
 catttcaata gcctaaaaac actacccaat tacacaacaa aaaaataaca ttgtctacca 240  
 cacacacatg gaaaattgga atgttatagt tgacataagt atctcatgat ttcttcatcg 300  
 gtgggtgtctt caagtgtctc atcaacaata tgttgtcaaa ctatatcgaa gttagaagtt 360  
 caagtcattt tatgagttag 380

<210> 20730  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20730

taggaaggag gattgggtgt ttgcttacta gttgcaccca tttggatagg taggaaaccg 60  
 tagaatccct tgaacctaa tgagagttat gattcagtat accgaagaag gaagatcatg 120  
 ttgaagtctt gaaacgtata cctcttttct ttaatcgtct catgtttgag aaagagtcga 180  
 ccatgtgggc aatcgtgttt ccttatgcct gtttgttcat ttagattgca ttagtgtctc 240



ctatgatatt acccaactcc aaatagtatg tcattcacat tntattatct ttgagatggt 300  
 actctcatga gaaaacttga cttatgaaat actaccattg agaaagcgaa aatcgtcaaa 360  
 cttagtcatt aagtgcanaag gagtcttaag gtcgaagtca ctg 403

<210> 20731  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20731

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 acagggcaaa ggcagaaaac tctgccccaa aacacaaacc aataccacag ctttccttac 120  
 tcaaataccc cagtaacatt ctcttcgttc caattcggtta accgttggat cgactcgaaa 180  
 attttactgg aggtccctag tacataaatc tacattgtgg ccattgggat ctgctagaaa 240  
 acgtccagaa cccaatctgt actactctnt ccacaaccag caaatacaca tcattntctg 300  
 cacaagcca aaattctgct gcacatttca ccagcanaat tctgcataat agtgaagatt 360  
 tcgaaatcac acttgccctc g 381

<210> 20732  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 20732

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 ctcatgaca tcttttgtct tgaatggaat tgccatgaca gggttattgt tactgtcttt 120  
 gatgtttggt agttgatatt gtgttgctgg aggttaattcc gattggatta actcactatc 180  
 cttcacttgc caatttggtta tgacatttgt tgttggatca cctatgatgt cttgttccaa 240  
 cggtatctat atcctttctg atggcataag catgaaacca atcaaagaaa aggacattaa 300  
 ttttgactct ttcgacaaat tcgtagaact tgtcttggat ttgttttctg tttgtaccct 360  
 tgtaatgttg gaaaaaccat ctcttttggg gttcattctc cggagaataa aatcttttc 419

<210> 20733

<211> 416  
 <212> DNA  
 <213> Glycine max  
  
 <400> 20733  
  
 acctcggtgg taaaaggtat gagcatttga atttctcgag agcttccatt ttttaatttc 60  
 aaacgtctcg atatattatg cgcccgaatc ggacatccgt gtgaaaaatt atgaccaata 120  
 gaatttctcg agagcttacg ttggtcattc tcgagagcct ctatatagga tgcgcctgaa 180  
 tcggacatcc gagttaaag ttatgactat ttgaatttct caagagcttc cgttgcccaa 240  
 ttatgagcgt ctcgatatgt gattcgcattg aatcggacat cctgttgaaa aggtatgact 300  
 atttgaattt cacaagagct tccgttgctc aattttgatc ggctcgatat gtgattcgcc 360  
 cgaatcgaac attcgtgtga aaaggtatga acatttgaat ttctcgagag cttccg 416

<210> 20734  
 <211> 202  
 <212> DNA  
 <213> Glycine max  
  
 <400> 20734  
  
 agctcgcgac gctattgacg agtgccctgta tatagatgcg cctgaagtag acatacgagt 60  
 gacaagctct gaccgtttgg atgattttac aagttcctat gattaagtag gagcgtgccc 120  
 atctgatata cacctgagaa atacctcagt ggaagaacgc ctgagcattt gcacttcttg 180  
 cgagctgtcg acgttcactg tt 202

<210> 20735  
 <211> 443  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20735  
  
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 ttatagcggg ttgaaacctc aaaacaagat gatccttgat gcctcaacta gaggcattat 120  
 gatgtccaag agttcagagg aagccatagt aatcattgac tccaaagtag ccagtgatta 180  
 tcanagtcac catgatagag ctccaactca aagaaaagg ataacagaag tggacactca 240  
 aatgcaatt ctagcacana acanactctt gacgcaacaa atngaggcct taacaaagca 300

gataggccaa ctccctcagc aatatcacca aggtggacca cagaaaacac aacaagttca 360  
 ccaagttcaa canatthttga gaatgcaatt ttgcggaggt aaccatcaga atgaccacta 420  
 tntagtagct ggtgacgaac aac 443

<210> 20736  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20736

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 tatcttaacg caaaaaatgt catgctaacc tctctgattt tagaacgaac tgaccctca 120  
 ccagaaaca gctgaaacac gtatgtgtgg aatatcctac tatttatatc aacatagagg 180  
 ccatccaaca cattctaatt gtcatacata tatgcatttg aaaagaacat acattctcac 240  
 gcccaaggca ttgcgtcaaa ctccacttaa tttatatcct aaacatttgc tatttagaaa 300  
 ctacctacat atgtttgaaa tatatatcat acaaattttt attgtttcac tcgcatttat 360  
 tcatattggc aagctattta cattatgcac acacttgcac tcaaaaggga atttcgtgct 420  
 atcatacatt cat 433

<210> 20737  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20737

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 tgtcttactg gtttagcccc atcctctana tttatctaata gcatacatgt ggatgggcta 120  
 ataccaggaa tgtccgccag ggtccagcct atagccttct tatgcttctt gagaattgat 180  
 aaaaacttct cctcttgctc atcaacaagg gagggcaata taattactgg aaaacgtttg 240  
 ctatcatcca agtaagcata ttttanattt gatggcagag gcttcaattc tgggtgtgggc 300  
 gggttgataa tggtagaagg agatggtnct tcagcctgta cctcataaag acagtcagag 360  
 gtatgtgtac ttcttgaaac atggctagtt ctatcagact ctacgacacc tactctacg 419

<210> 20738  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20738

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 gatctgcgga cgaaactcag tttaagttag tctaaaccta agagggctat ctaaatecggg 120  
 tgtagcctta aatgaaggat ctgcggacga agcttggata ttccgcctga cgaaggattg 180  
 aggggtttagt aatttaggct gcaacataaa acacaagagc atgattgatt agagaaatat 240  
 atttctatgc atcagcgatt tgtagaaaaga cccaacatat ctacctactg ttgtcattnt 300  
 atttaccttg cattttatna gttttagcat acaagtttag tttagaattt gtttgaaatt 360  
 atcacttata catgttctct caacaatgct tcgattctga acttaattca nggtaacatt 420  
 agttccctgt gtcaatactc 440

<210> 20739  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20739

agctttatatt attctntntt tattaggnta gatgaattct taaaagaaat taattgaaac 60  
 aaatgacgat taacttcaac tgaaagtcaa gaaaaatggg caaaaaggaa aacttacgct 120  
 atttatttga gaaaagcggt aaccgaaat ttgtatggac caaaactgct atgccccaaa 180  
 tacaataaat gatagggaaa atgcattatt tttatatata tataatgaca ttggtgcaaa 240  
 ctaacttctt tnttatgatt aattnttatt aaaaaatgat gtggattgac cactttatta 300  
 atactcanat tgaaaacatt acttaaggac atgaaatgta gttcaacttc aaccaacaat 360  
 atgttgcagc agggataatg catttgtatc ttaaataacc attntatata atttcaaagc 420  
 tggatttcag gaagagttaa tt 442

<210> 20740  
 <211> 415

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20740

aactcaagct tgtccacaaa aataggttnt tgaagtttgt aatttaaatt tctcactatt 60  
 tataatggat ctttttcaag gtccaacgcc ttataatgat cacctcttaa agtaaaaaag 120  
 aatcacttga taagaaagaa ctacgtaggt ctgatttcct catcgcaatt gaggaatacg 180  
 taggagcaaa gggaaacacc cttgtcaacc acaaaaagag aaaaatataa aaagggtata 240  
 aaagatataa agacataaaa agggaacact caatcaagtc atgtntgcac attcgatcaa 300  
 aggctgccgt cccttgggac ggacgtgtgg ggtgctaata cttccccgt gcgtaaatac 360  
 aactcccgaa cttttcactt aaaagttcgt agatcngcgt ctttcggttt ttccg 415

<210> 20741  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20741

ttcttattga ggagaggcgc aagaccactc aagaaaaaga ttactgctg cggcaggagg 60  
 aactagacaa tttgttggtc aggtacttca ctntctatct ctctctgctg agtggttttt 120  
 ctctctgcag aatttctcan atttctcaaa tttctccatt ggggtgttcat tcatggcttt 180  
 tggaagatgc aataagcaat aaatatctac ttatctgatt gagttttttt acatgggtgt 240  
 ataacccaac ccaatggcat agtgtgcaaa cagattttnt cttttttttt ttganagtaa 300  
 aaaaatgtta caatgtgaaa aatgttagct acacttttta tgcacaaaaa attaanaaaa 360  
 tgtatcaaaa tttttataat aactcataag ctccacttaa tc 402

<210> 20742  
 <211> 520  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20742

caccacata natacgccaa cagcccaccg cggattaaca aacaacgaca tactcaccn 60

nnncaggggg tgaatgagca tgatacnccg caanacngga ncnananaaa cncaagccct 120  
 agnnganggc cgcnganggn anggaaaact attaatccat catcccgggg gacaaagaag 180  
 accaggagaa aatagggggg tattgaaaca tacagcggac ttggcaaaat aaacaaattc 240  
 agccactctc attataaaaa ccaatggaca atggtacacc agaccaattg cctaactaat 300  
 ttccaaccct cccaaaaacc aatccaaact ctaacaacgt cattgcttta aatacctata 360  
 tagcccaaga aagaaccgac aaacctttaa agactatgca aaaaagataa ttcaaacaag 420  
 atattgccaa tatgagggga gctattaagc aaggaccacg aatacanaaa tggacaccac 480  
 catggcaccg acaattcttc cataagggag acaacaagn 520

<210> 20743  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20743

tcattctagta gttaatttcg gggacgaaat tctaanagg gtgggagtat tgtaacatcc 60  
 tggaaatttc taccgggagt ttacggaaac gatgtatttt gaatgattat atatatatat 120  
 atatatatat atatataagt atatatatat atatatatat atatataaa gtattgttcc 180  
 gtgtatatgt atagatatgt tcttgataga aataggaata gtgggggcaa gatacgcggg 240  
 ttagactaat taaggaagag aaatccataa ctgggaggtt atgggttaat tcttaattaa 300  
 ttagttaaaa atcattgttg tgcgtgcgac tntgaattta actaaaccaa cctctgaacc 360  
 acgctcgngg ttntattctg agnctgttga tatatatatn gcttgctttc gaanactggc 420  
 ccangcagac gct 433

<210> 20744  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20744

tctccccat tttctataaa tagggggaga attgaagttt ataagggttc agccccctta 60  
 ggcacttctc tctctctctc tcgaaataga tgaagaaaat tagttccgtg aagaaaattc 120

aagccgagge gcttccgtaa catttccgta acgtttccgt gagtaattac tcgaagatcc 180  
 tcgaccgttc ttcaagattc atcgtttggt cttcgttttc ttcagtcttc aacgggtaag 240  
 tacctcaacc aagctttcat ttcattctat gtaccctggg tggccacat tttgtttcat 300  
 gtatttttat ttcggttttc atttactttt tataccccct tttgacgtgc ttaagccatt 360  
 tatttaagtc atttctcact tattctaana ataaaataaa tttccaccga tc 412

<210> 20745  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20745

ttctttataa cacgcagaga ctaacgtcgt cttttgcggc cttcgtcaat cgcggccgac 60  
 aagcccgttg acacgcagag atttatgtca tcttccgcgc ttacaagatc tgtcactctg 120  
 agttttgagt cacgctgacg ggcggaaata cccgagtggg tatccgtata aactttttgt 180  
 tgtttgtaag acgaatagcc tggtagcacg cagagactaa cgtcgtcttc tgcgcccttc 240  
 gtcaatcgcg gccgacaagc ccgtttacac gcggtgattt acgtcatctt ccggtgctcac 300  
 aagatctgtc atactgactt ttgagtcacg ctgacgggcg gaaatacccg agtgggtatc 360  
 cgtataaact ttntgcatgt ctgtagacga aaagcttgat aacacgcaga gactaacgtc 420  
 gtcttttgga 430

<210> 20746  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20746

tttcgtctta cagaatgcaa aaagnttata cgtataacca tttcgggtatt tccgcccgtc 60  
 agcgtgactc aaaagtcagt atgacagatc ttttgagcac ggaagatgac gtaaatacacc 120  
 gcgtgtaaac cggcttgctg gccgcgaatg accaatggcg cagaggacga cgtagtctc 180  
 tacgtgctat caggcttttc gtcttacaga caacaaaaag tttatacga taaccactcg 240  
 ggtattttcc gcgtcccgcg actcaaaagt cagtatgaca gatcttgga gcgcggaaga 300

tgacgtaa at ctccacgtgt caacgggctt tgcgggcgcg attggcgaat ggcgcagaaa 360  
acgacgttag tctctgcgtg ctatcaggac tttcgactta ca 402

<210> 20747  
<211> 355  
<212> DNA  
<213> Glycine max

<400> 20747

tgctttcagt tttatatatt attgcatgaa ccttttggtc gttgcaaatt attttgatat 60  
agattacatg tattatatgt aggattaatt tgttatTTTT tttttcacat ttaaataatta 120  
aatctaaaat tctcatctgg gatcaatacc tcacactata ggcacaatat tagttattta 180  
tcaaacaaaa tattgtatTT gcagatatta cgcctttggc ctctgtttct gaatgaaagg 240  
caactcttac ataaaaaata aaaaaaaaaa aacttgcaat atgaatattg tgcacacttt 300  
atgctaatta attttggtgc ctcattgagtt tactattctt caactgagct ttctt 355

<210> 20748  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20748

aagaacgcga ctaacacaag ataaggtgac aatatggcgg tgcaatgaaa ggcataagat 60  
acatgtaagt atgaaaactt tcgtctatta aaatattact tcaacaaagt gccaaaagga 120  
atataaagac tttattaaga gtgatcgatg cctataatga ttctcataca attggctctg 180  
aaacttatta tttcgctctt cacaccatat attaggagct tcttacaaca tgacaacatg 240  
ataaactggt atttgattgg attctcatct caatntatct ttattacttt actttactct 300  
gttgggagaa ttcattgagta tggattaact atgaataggg gaacaagaaa ggcaataaag 360  
aga 363

<210> 20749  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations



<400> 20749

agcttttctg aaacatcatc taacacatcc tttatgggag aaataacatt agactcatca 60  
aaggaaacat gaatggatcc ttcaatagtc ataantctct tattgtatat tctatatgct 120  
ttactatgca aggaataacc aaggaagatt ccttcatccg acttggcatc aaactttcct 180  
aagtttcttt tccattatth aatacaaaac atttgcaacc aaagacatgc atatgtgaaa 240  
tgtttggttt tctaccattg aataattcat aaggagtttt ctttaagatg ggtcttatta 300  
aagccctatt taagatgtag catgcagtgt taacagcttc agcccanaag tattttgaaa 360  
gtggagtatc atttaataag gttcttgcta tttcttctaa ngatctattn ttcctttcaa 420  
caacacc 427

<210> 20750

<211> 353

<212> DNA

<213> Glycine max

<400> 20750

taaccagagt gcttttcttg tcagctttca aaagggttaga tatctcacta aaactgatta 60  
aaccatcatc agaaccttta cttgggtttta caaaaggaca agttcatacc tgcgattatg 120  
tggaacttga gaccaccttt ggagtaggga aattatctca aatagtgtc gtccaatata 180  
tcattgttga tgcaaacaca tcatgcaata ttctcattaa acgaccttct ctggatgccc 240  
ttcgggcaat gtctttaccc cacatctagc catgaaattt cccaactcca aacataatat 300  
catcaccatc aaagcaaata aaaaagaagc ccaggagtgt tatgccaaaa gcc 353

<210> 20751

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20751

tagcttatag aatgtttggg tgacacaagg ttgacaaatt atggtaaaga gaaaagtga 60  
aaaggaacaa ggtttgccat cttatthttga aatggctttc caaattactt atccctatth 120  
tggaataact atcctaaaat atgaaaaata tgaaaatcat atthttggaat aactattata 180  
gaataagtaa tttagaaacc tathhccagaa tatatathct agaataaat thhcatathc 240

tgaattagtt attctggaat agggatacat ttctagaatg gtcattctgt gataaagaga 300  
 gggtaatata tgaatnttta agcatttggn ggtgtagcgc aaaaaatatg gtacaggaag 360  
 ccattgccca ttatgaacat aatgatgatg gatc 394

<210> 20752  
 <211> 172  
 <212> DNA  
 <213> Glycine max

<400> 20752

tgctgctact gtcactacac ttgcattttt gacttctcga agtgcgataa tcgtttgaac 60  
 aaatattaga tgcttactaa acgggaaaaa ttggaatgct gagatagaac agaattggaa 120  
 tgctagaaaag atatatccta aatgaatttt tatcaaaca tattataact aa 172

<210> 20753  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20753

agcttggttct ctcggttat gatttaaaat actttatttt aaatgagtca aattgagcct 60  
 ttnttttaga gggtaagtt gggctacaac ctgttttttt tataattaaa aactgccttt 120  
 tttgctatgg atgccttgct gcaatccatg cttctggcat ctgccatggc actgccatac 180  
 aatggcattt tcgtcaaaaa tntgcccagc cataacacca tggccgcaat ttactagcat 240  
 tggttgttag ctgattcaat tatttgaatc aattgacaat tcaaaatcag cactatctta 300  
 nggataatag tcctagacaa acctaatat ggcatgctag actagatcac aagtcaagca 360  
 aatgttcaaa cttcaagtag acanagtaga cataactagt aatacatgga tgtcannaca 420  
 gtattcctc 429

<210> 20754  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20754

taacctanat ggctcccatt ccttccctaa accacattct ttctgaattc tttagtgtct 60  
 acaccttctt ggcgccaaat gaacgtcttg ctcatctctg tcttccaatt aaattaatgt 120  
 aagaactaag aagggttctt ggtatactct ctctaactct aacacaacac acatgatgta 180  
 ttagtattag tttaaattta gtgaaaatta taaaataaaa taaaattca acaaatgtta 240  
 agttgaatcc acagaactta tatttttaac taataataaa agaacgtgtt taaaagagct 300  
 tgttggaat attttttcat gtgtaattaa atgtaggtaa ttattatata agttcattta 360  
 agacattgtg ctgtttgggt tagatttaat ttaatatact gtgaatatca acttgacatt 420  
 ttattttt 428

<210> 20755  
 <211> 440  
 <212> DNA  
 <213> Glycine max  
 <400> 20755

agcttgtag ctcatgttaa aaaaatttgc attagagagt ttctctttct tcgggtgtac 60  
 attcctttgc cataacaata actacattct ctgttcaatt ctgcgaaact ttgggtgtctt 120  
 ttcaatttaa ttctcgtgag tcattccgtt cttattaggt atctcaatct ctctatctga 180  
 gtcatttctt atttggctct tgaatctctc tattcatcgc tgttcaattc tccgtttata 240  
 attccttta tgaacatgat aggagtgtat agggtcctaaa tttatttgta tggaaacaga 300  
 tagcttatgc agcacaaaaa taatctatat atttgttatt taaacaaaat atcaaaattc 360  
 caaccttagg gaaacaaata aattaactaa tcccactata atgtattaaa agcaagtaat 420  
 taacttaaag ggttgaagtc 440

<210> 20756  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20756

tatcagtcaa gccatanat aaatgtggca aaatttgcca tgttataaaa ataaggctga 60  
 aatgtggaat taagtctact attaataatc tatttatcta aatatataaa tacatagtgt 120

ttttttactt taaataggat atcaatttta tttttattag attcaatcat taaaaactaa 180  
 tttttttaaa cgggggaact ttttggatat aaaaatctat tgtagataa aaattaattc 240  
 ctttaaaaaa gataacgcaa atattattat aaagtctata catatatata cattagaata 300  
 taccttaaaa aatttattta ttntattatt atctaaacaa ttagtatata taaatattct 360  
 acaatagaag aattccaata tataaatata tagtacatag atnntaatat atgtgtgagg 420  
 taattctact ttntaaatat t 441

<210> 20757  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20757

agcttttaaa gtagcatta natgtaaact aggcgaatcc taagagtgtt tggatgacca 60  
 cattcaaggt tcccaacaaa acactcacta tcctaaggaa gaattgccta aaattattac 120  
 acacaaatgg aattntggta acctattgga ggctcccaac acacttccat tgaaaggcct 180  
 ttttgttaca aaacttgaaa gcaatgaagg taagtaaatt gcaaattaca aaattacaaa 240  
 atggctcctca attntgggtg ttgttctctc tttgggtgatt cactcaattt ggagtgcctc 300  
 ttagtccaat agctcttaag gtggttggtt cttttcttct tgactcanat tcttcaaggc 360  
 atggcaccaa tcctccttcc aattccctat atggcaaccc acanacaagg aaacaaagag 420  
 acaagcaata atc 433

<210> 20758  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20758

cttgtgcatt caatatcctg atgagggtgt tccatatggt cttatgactg ttctaataca 60  
 tttgctgccc aagtttcatg gtcttgcagg tgaagatcct tataagcatc ttaaggagtt 120  
 ccatattggt tgttccacca tgaaaccccc taatgtccaa gaaggtcata tctttctaaa 180  
 ggcttttctt cattctttgg agggagtggc aaaagattgg ctacactacc ttgctcccaa 240

gtccattttc agcanggaca ccttaaaggg tgttcttgga gaaattcttt cttgcatcta 300  
 ggaccactac catcagaaaa gacatttcag gcattaggca acttagtgga gaaagcttat 360  
 atgaatactg ngtgagattc aagaaactat gtgccagttg tcctcactac cagatttctg 420  
 agcagcttct cttcaata 439

<210> 20759  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20759

agcttttagnt ttatatTTTA ttgnatgaac cttttggtcg ttgcatatta ttttgatata 60  
 gattacatgt attatatgta ggattaattt gttatttttt ttttcacatt taaatattaa 120  
 atttaaaatt ttcactctggg atcaatacct cacactatag cgacgaaatt agttatttat 180  
 caaacaaaat attgtatttg cagatattag gcctttggcc tctgtttctg aatgaaaggc 240  
 aactcttaca taaaaaatan aaaaaaaaaa acttgcaata tgaatattgt gcagacttta 300  
 tgcntaatta atttggtgcc tcatgagttt actattcttc aactgagctt tctttttgca 360  
 tgtggccaga tatgtgatgc anaagagaca attatgacta tatgacttac ggatgtcaaa 420  
 aatattat 428

<210> 20760  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20760

gcttgcaagt catcatctta tccacaagaa aagggagagn ntattatttt tcttatecta 60  
 aagaacgtga ctaacacaag ataagttgac aatatggtgt tgccatgaaa gtcataaggat 120  
 acatgtaagt atgaaaactt tcatctatta aaatattact caaacaaagt gccaaaagga 180  
 atataaagac tttattaaga gtgatcgatg cctataatga ttctcataca attggctctg 240  
 aaacttatta tttatacttc cgttcataat tagtagcttc ttacaacatg acaacatgat 300  
 aaaatggtat ccgatgtatt ttcactcat tttatctttt attttttact ttattttgtt 360

ggtagaattc atgagtatgt attaactatg aatagttgaa caagaaagct aataaagaga 420  
ccagatccca aatgagataa gaaaaaa 447

<210> 20761  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20761

agctctataa gttcgggtct gggagacaaa tgtcaagtgt tcgcgatatg cgaagatgat 60  
gttccgagta ctttggattt ggtacgacca tgccctcctg atttccaact gggaaattgg 120  
cgagtggaag aacgccccgg catttacgca acgagcataa tgtaaactt tacggttnta 180  
aaagctctat agttgggcct aggcntntaga gtttttcctt ttgttaaggc tttgtgtctt 240  
ttgtttttga atttataata caaggatctt tcttcatctg ttcctatgtc tctaccatt 300  
ctcattcatt tgcattgtta cttctttntc tgaaacggca gatccgatga cgagtcccc 360  
gaaggtacta atacctggga ccgcctgtc gacttcgagc aagaaatgaa tcanacggaa 420  
gatg 424

<210> 20762  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 20762

gtatgccga gtcattcatc cctatgagat gttgtttatg tattttcgat cagaattgcc 60  
attccttgga ttatagggtt gaaccaagct catgctttta caaaaagggtt catcaagtca 120  
agttgaaata tggaagtaac cgtcttgcaa aattggggca aaagatgaat cgagtcacat 180  
cactgcttcg tctactgcca aacatattta ggattattga tgccttggtt acttccagtt 240  
tcaccttgac aaagagtcac ggccatgttg aaaatctaaa ttgattcaac cccatatctt 300  
gcgtaaaaat tcgcaatact tcaactgtac atcatctgca tgcatacatg cttttcattg 360  
gttgcatcgc tacgtgcatt ctttccttga aaaataaaaat aaaatgaact taatcattgg 420  
tataaaaa 428

<210> 20763  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20763

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 gtggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtgaaa 120  
 aattaccatt aaaggacctc attgaagctc aaagatctag catccataga agccccacaa 180  
 gcaagcttcc atcaagtggg aatcagagca caagggcttc aagtaggtgc tccttaaacc 240  
 tccattaatt ttttgcttta ccttctcttc cattgttggt tcatcatttt tctccatgta 300  
 tctcctcaca tgtcttgtgc taaatgttgt taacatgaat ctttagagtt tccaccgatt 360  
 aaacttgcta taaagctaga tttgatntct atgggtca 397

<210> 20764  
 <211> 111  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20764

catgaaaatg ccgtaactag gaagtgatcc tangtcgttt cccaacgagc agtgacaagc 60  
 caaatgttca taatatactt gcagtaacag taacagtaac catggggggg g 111

<210> 20765  
 <211> 357  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20765

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 gttgggtcat gttctcaaaa tgctcaaaat caaaatgttc aaaattataa tgctcaaaat 120  
 caggatgctc aaaattacca accacaaaat gctcagtctc accaataata gaatgtctcan 180  
 gatgtcaaa aggtacaaaa tgatgcctaa ctaatctatg aaatgtgcta tctatctcan 240  
 gatcaaaggg ttgtaagtca gatggattgc ctccagtgtg gtgtaggttt gaactacagc 300

tatcctcana tgatatccaa atgacttgaa attttgtgag caacacccta aaatcat 357

<210> 20766  
<211> 438  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20766

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gggttgagaa atgaaattga gaatgaggta aatttggagc aaactctcaa ctcacacaag 120  
tctataacat caatttaaac ttgctcaaac tggatttaca cctaaaattc caccgaatca 180  
aaatttgact cctcaacatc caattttacc ctagaaatga ctctttgggc actttgggtca 240  
tttgtttttc ctcttgccag cccaagcttt ctcataagtc ctaaatgaca tttcaaacta 300  
ggaataactc actttaacct ccaaatacca ctaaatccag atttggcctt ccaactctca 360  
aaaactcact ctttttttnt cactcataac accatattct cactgtctaa ccctagggta 420  
actctaccct tcattcct 438

<210> 20767  
<211> 435  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20767

ttcttgtag ccaaatccac aactcgtct tcgttcagtt gattaatagt cttctggtaa 60  
ggtagcagc ctattggccc aacgtttcct atgacaaact ttctagcatc catttggtaa 120  
agtctctgcc attccaatca aacatgccaa gttacacatg acaaaaaata aaataaaata 180  
aaatacagta aatntttggtt tggattnttt tttaataaac atttataaaa gaaaaaccca 240  
aaagtaaact gaaataaact tcttgccctca tcaatcaaaa tgaaataagt taatttataa 300  
aaatccttcc acttaatttt ttcaaaaact gattntaact tataagagaa gtttaactcg 360  
tgtatcttnt ttatcttaga ataaggaaac aagaaggtaa nataaaacaa tnttttataa 420  
atngatataa cttat 435

<210> 20768



<211> 429  
 <212> DNA  
 <213> Glycine max

<400> 20768

tcagtacatg gtaaattgga tggcctggcc tttgtgccat atagtactag aactagaaga 60  
 caacagcagg agctggaaca tcaacagagg tgacagtagc caggaaatgt acagggacag 120  
 aatgtacatc agccttattc ttgcaagggg aaacagcaga atcagaagaa tcgtgcagcc 180  
 ttaaatagaag aaaggaatag agacaattgg atccaacagc accttgaagc aaaatttcat 240  
 gagtctcttc aatttgccag acacaaatga ggatgaaact caaagtatac tgaattgtct 300  
 ttagcaaaact gactcacact cgacagggtt ttagtaatgg caggaacatg gagtaaatta 360  
 ttaagtttaa aggagacttg aaattaaagg gagagatgat cgatgaagaa ccagaaccct 420  
 taatttgca 429

<210> 20769  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20769

tatcttttgc aacagcatta ttaattntgt gagccccagt gtgattgaga tcttccctct 60  
 tcagataaat gtgaggtcct tcaccattag gcctcttgta atgctccgtc aacctttcag 120  
 caaaataaag aggactctcc cggccaacat aatcttttag aatcccagcc agttctgtct 180  
 gcaactcaaa atctaagaaa atttccattg ttttcccttc caggaaacta catttcatgg 240  
 tttctgaatg tagttaacat acaaatatga gagatgtgct agtatgtang agagacagan 300  
 agttattctg aatctaattg agtgaagatt aacatggagt tccaaattgg ttagttctgt 360  
 atgaaactcg aaaaatanaa gactaaagaa attctgaaga atgaaatgat acacattcaa 420  
 acagtcacaa aat 433

<210> 20770  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 20770

tgtatgagta ctgggaaaga ttcaagaaat tatttgcaag ttgtccttac caccagattt 60  
 ttaagcaact ccttttgcaa tatttctatg aggacttaa caacatggag aggagtatga 120  
 ttgatgttgc cagtgggtgga atccttggtg atatgactcc tactgaggct aagaatttga 180  
 ttgaaaagat ggcttccaac tccaacaat tcaatgcaag aaatgatgtt attattctta 240  
 gaggagtccc gacgtggcac ggattcatct tcactacta aaaataaaaa tcttgaagga 300  
 aaacttgatg ccttgggtcaa cctaataact catcttgcca tgaatcagaa atctacacct 360  
 gttgcaagag tctgggctat 380

<210> 20771  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<400> 20771  
 agctttatga gatctgaaac tcaacttcct ctctctccat ggaagtatgc tgcgcttgga 60  
 actttgtact aaataaggct gagaagaaga agcagtagaa tcctccctct gtgaacaccc 120  
 aacatcagac ttgcgatggc tgtaataaac ccagtcttca tcattacaat ttactctcgc 180  
 attggaatga aaaaatcccc cagcatttgc agaagccagt gttccataac tgaatgactt 240  
 cctaactctg gaatcctcct tccccccatc tgtttcacct tcctcagaat catcaagtga 300  
 ctcagaatcc aaaggataat tgtattcacc atcctcactc ctagaagcac cttcttcact 360

<210> 20772  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 20772  
 tagccattgc gaattatatg cagtogaaca tatattatta tgatctttat ctttattctt 60  
 tagtataaac agaaaagatc gactttgatc agtatatgtc ctatggcaat ctattaaaca 120  
 atttaattaa ttaattattc gacagaatac atatctgcaa gtttcaatat atattttatt 180  
 caacccaaaa cttatctata tcaggaatat gagtaattat gtttcaacac cataaatatt 240  
 taacaaaaaa gaaattagtt cgatatagct ataactaaat catagcagat tatcaatcaa 300  
 gttacatgta gtagtgtatc ctattgaaat gaaactatct ttgagagtct tatgagctaa 360

<210> 20773  
 <211> 257  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20773

agcttgtaga gagcaaatga gaanaaggag taacaaatgt gaaagcaaga gcccatttct 60  
 agggtaaatg ggtgttgaga ggtcaaattt tgaatagggtg gagttttcac cttaaaacca 120  
 gtttgagcaa gtctaaatca atgttataga cttgatgaag atgagagttt accccaaaat 180  
 tacccaattt gtgcattgct agtcacgggc agggtagtac atctcgtgtt ctaagcatta 240  
 tctagcagat cccaacg 257

<210> 20774  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20774

tatgctgcaa acacttataa tagtatctcc tcaacagcaa atccaacaac aatagaataa 60  
 ttatgacett tcaagcaata gatacaatcc aggttgagg aatcatcaa atctgagata 120  
 gacaagtect ccacaacaac atcagcctgt cctcctttc caaaatgcta ctggccaag 180  
 caagccatat gttcctctc caatgcaaca acaacagtag cagtcacaac aaagacaaca 240  
 agcactgatg cctcctcaa ccttccttag aggatttagt gaggcaaatg accatccaga 300  
 atatgcaatt tcagcaagag acaagagcct ccattcagag tctgacaaat tagatggggc 360  
 agatggctac tcagttgaac caagctcaat cccaaaattc tgaccaattg ccttcacana 420  
 ctatgcagaa tccg 434

<210> 20775  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 20775

tagcttgcca aggttgagct aagctaactt aaattcgata tgaattcggc taagcttcag 60  
cctgatcgct aagagacagc ttatccgtgg ctaagcatga cctattgtcg ccaagctcaa 120  
ttccttaagg ccataattga ggtccatgac actaagcacc agtcatggca gctaagcgag 180  
attaattgcy gcaatatgag cgctaagcga gtcctctccc actaagtga tgctcctctg 240  
tacttaagat gcatcattnt agctaagttg gctagagcct tgcttagcga gagttgcagc 300  
ttttctaatac tacaaacctc tctaagaaga cgtaccctcg tgctaagctg agtntctgtt 360  
aaaaaaaaac tgantttgaa tntgaaacgt cagctaagct cacgggt 407

<210> 20776

<211> 353

<212> DNA

<213> Glycine max

<400> 20776

gacctataaa actcagctta gagctggaga aagcttgacg atgttgtttt tcttgcccaa 60  
ctcccttgag tggcatttgt attggttgtt atattgaatt ttatcatctta atccatatca 120  
tatcttttct gcatcatgca tcatcatgag taagtggaga gaaaaatttc taagtttgaa 180  
aagttttcttc agaaggcaaa actcttttgt ttaatcgatt atagccttat cataatcgat 240  
tacacaagtt ttctgagctt gcaagttatg tctcgtattg gtttaatcga ttacaacctt 300  
ctcgtaatcg attacatagt tggttttgag actgtcgcaa cctacccttt tgc 353

<210> 20777

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20777

agctttttatc ctatcatcaa accaatgaa tgcagggtat acctctgaag gcaattatcc 60  
tgcatcctgt ccaatgccac aaccaaaggg taactaattg caaaccttag ctccaatcgt 120  
tgcaacattn taccagctca accaatcaat acacgaatag agggcaattt cacacattaa 180  
cacagaanag taaatatata tataatatat atatgtgtgt gtgtgtgtgt gtgtgtgtgt 240  
gtgtgtgtgt gtcacaaaaa aagatatgga tgtgagtgat tattgtgtct tgggttgtaa 300

ggaaataata ttatggtgat ggccccacac aagcttcttt tcaatttgta taagagcact 360  
tcaaagtcac agcccacttg cacttcatgc ttttaggtaa tcaatcata 409

<210> 20778  
<211> 417  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20778

gttctaaatc agaattaaat gtaaccattt tatatttctt tgactatggt atatattggg 60  
ttagagttgg ataccatct cctagaaaag aaccagggtg gttgtgtgtg gaaagttcat 120  
tccacaagat gttgcaatca agataagaaa aaaaaaaaaa ctaactgtag agttgagata 180  
ttagacttac aatttggttt ctccctaact ctttttttat ttattttctg atttaaaaac 240  
aaactctaaa ctcaagtataa cagaacctac ataataataa taataataat aataataata 300  
ataataataa taataataat aataataata ataataataa taaaacaaaa cccaaataat 360  
tcccaagttt tcttccttaa tccctttttt ttctgnatag aaaacanact aagaaac 417

<210> 20779  
<211> 415  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20779

agcttgtagg atgcttcaat ggaggaaaag aaagaggag agaaagagag aggggggagc 60  
acgaaattta aggaataaaa tagggagaga agtggaactt tgaagtatat ctcaagac 120  
tctcattcat ccaaagttac aacaagtgtt acacatgttt ctatttatag actaggtagc 180  
ttccttgaga agctttcttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240  
gagaagttag agcttagcta cacacacccc tctaataact aagctcacct ccttgagaag 300  
cttctttgaa aagattccta aagaagctag agcttagcta cacacacctc tctaataagct 360  
aagctcacct ncttgagatg agaagctaga acttagctac acaccccta taata 415

<210> 20780  
<211> 422

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20780

tggaggaaga aggagatgaa taaagggaga gggagagaag atcatgattt tttgtgctct 60  
 aagagagctc tgaaatctga agtttaattt tcaaagatgc aaagttgaaa aaattgcaca 120  
 cacatgacct ctatttatag cctaagtgtc acacaaaatt ggaggggaaat ttgaatttct 180  
 attcaaattt cacttgaatt tgtggagcca aattttggag ccaaaatttc actaattatg 240  
 attagtgaat tttaacctgg ttctcccact aatccaagat gaagtccaag attctccact 300  
 aagtgtgctt aggtgtcatg aggcattgta agcatgaagg acatgcacaa agtgtgacta 360  
 tatgatgtgg caatggggtg tagcaagcaa attctcacct tcccctctna aatttaattg 420  
 ga 422

<210> 20781  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20781

agcttctccc tcaattttct ataaataggg ggagaagtga agtagaaatg ggttcagccc 60  
 ctttggcact tctctctctt tcgaatttgc ttaagaaaat tgtttccgtg aagaaaatcc 120  
 aagccgaggt gcttccgtaa ccttccgag atgtttccgt aagcaaatacc gtgaagggtt 180  
 gcgtccgttc ttaccgttc ttcacccgct cttcgttctt caacgggtaa gttttcgaat 240  
 ccgagacttt caatttatat cttgtttttt taagctntca tctttatttc gntcattntn 300  
 tatttctttt cttacgtctn taacgcgcct ttaccgttta tttaagccgt tntctcacct 360  
 aataaatgat aaaatgaatt tcaaccgac atttgtgttg aatctcatta atcactntta 420  
 aacgaaatct atcgat 436

<210> 20782  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 20782

cttcgcgagg tacgtaggtc aactntgngn tcttntgtt ttattgttcc tgtgttcacg 60  
atggtagaag tatgctaagt ttggaaggag tgatgtgggt attgcacgat ggttgaagta 120  
tgctatgttt gagtgggtgt tcgtgtttta tagtttttta tgctaagttg ctacttctgg 180  
tgatttgtct ctgctttttt tctgtgtgca tcccatacc agcacaaggc cacataaacc 240  
caatgctcaa gctaccaa atgtgatttca gttataactca gatgctccac attgtcaata 300  
aactacctaa gctactcttc tcaccaatga tgttgggtcta gttctgtatg gctattctgt 360  
gatgtatatt tcacttttac tattactttt tctcactaga aagttgctga ctatccacaa 420  
gtttgttgac tatacctgta tgct 444

<210> 20783

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20783

ttgcttgggt ttccaacctt aatcactgct ttatgtaaag ctagagaagt cacttctgat 60  
tctaggacac tggagagtct caaccccgcc attaatttgg catatgtgaa gaagaactat 120  
tggaatcttg atgatcta atgtgactttc agagggccta ngaaggccaa ggggaagaaa 180  
ttgaagactc tcccatcttt tgaggttccc tctaccacat cagcaccaac ttcttctacc 240  
ctaggtactt ctgctccatc accaacttct ttcagatttt tcttttacac tagagatgct 300  
acatgccatg atgcagagcc tacactgagg gcaggtcatt attatgcaga gcttccagag 360  
cttngccta ccatctatca tgagcatggt agactntcac attc 404

<210> 20784

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20784

nnttggagta gaaacatggg accttcacat tttatttcat attgtcgnat ctagtcaaga 60  
tctgagagac catacaagtt tcttagcggt ttctaattat atgggccatt aagtctatca 120

tatgctgaca atagccgaga agcccatgaa tttcttcggg gccggagtag gtgtctgcc 180  
 ttgccttggc cttggctaataaatcgaggaa gttcttgact cccgttcaag gtaagagcaa 240  
 acccgccatc ccatgggttg cttcttggtgt aaagagtcga tcacccttcc tctagcctct 300  
 tttttcgcgt atactanggc atactcgtcc ggcaccctat gctcgtgggc cgtggctaga 360  
 cttaactctt cttggtactt ggcaatgata gctagcatgt nggtctccgt ctgcataaa 420  
 cgctg 425

<210> 20785  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20785

tttctttttg taatgagtat tgttcccttc acttttgtgc tttccattnt ataaatttgt 60  
 catattcttg ataaattttg cagcttcac atttatgcaa agcactgtca aatctatgga 120  
 atcttatgga cacatcatac agtgagcgac aatctttttc ccatgtaatc aatttgttgt 180  
 cactctcatc tgcagaagta acagatccgg gaagtcttac tctagaaata gtccagcagg 240  
 taggtatcta acttaaata tccatagaaa atatcgga aa ctcaaataa taaaaagtct 300  
 acaactttnt acaagactga agctgaagta aagagact 338

<210> 20786  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20786

gggtnttgtg ctgcctatag atgcccgaat cctagttaaa tgggttttaa gctactgaag 60  
 tgaactatgt ggatatggct tcttgtgcat taaaaatagc ccagtaaaat tctgaagaac 120  
 tacttactac cttggtattg agaatgaggg gttgttctgt tcccagcttc ctttttcctt 180  
 tccgtatcca ttatctattc cctctatccc accttgctaa aattcttaag cttaagctgc 240  
 tgaatttctt ttgttcatta tagaaagaga aggaaatata ttgatttact cctgagaaca 300  
 ggggttgacc ggatcaagaa aatgtttgga atcggatg 338



<210> 20787  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20787

agctttatatt nttaattacg agcgtcttta tatattacag gactcaatca gacatccgaa 60  
 ttgaatgtta ttgtcatttc acttttcata gagcttccgt tttcaatttc gagcgtctcg 120  
 atatattaaa gggctcaatc ggacattcga gtaaaaagtt attgtcggtt gatttttgta 180  
 agagcttccg ttttcaattc cgagcgtctc gatatcctat gggacacaat caaacatccg 240  
 attcaaaaagt tattgtcggt tgaatgtgct cagagcttca gttttcaact acaagcgtct 300  
 cgatatatta cgggactcaa tcagacatct gaagttaaatt tattgtcatt tgacttttca 360  
 tagagctctc gttttccata tcgagcgtct tgatatatta at 402

<210> 20788  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20788

ntaagaanag tcaaccgaca attacttntg acttcggatg ttgattgttt cctggaanac 60  
 atcgagacgc tccaaattga aaatggaacc tctaagaaaa gtcagacgac aataactttt 120  
 aactcggatg tctgatcgag ccctgtatta tatgaagacg ctcgaaattg aaaacagaag 180  
 ctctaagaan agtcaaacga gaaaaacttt tgactcggat gtccgattgt gtcccgtatg 240  
 atatcgagac gctcgactga aaacggaagc tctgagaaaa atcaaacgac aataactttt 300  
 aactcggatg tccgattgag ccctgtatta tatcgagacc ctcgaaattcg aaacggaacc 360  
 tctaaaaaag tcaaacgaca ataactttta actcggatgt ccgattgagc tctctaatat 420  
 atcgagacgc 430

<210> 20789  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 20789

actcgacccg gatcttaagt cacctgcggc atgcattctt ataagtcaat aagtatatca 60

gccaccttta cacaaaatta ataataatcc taattgtcat gtcaatggcg taataataat 120

aataatgata ataacaataa taataataat aacaatcatt actattatta ttattattat 180

tactattatt atcaatatta ttattattca cagaggaata ctgccgatat agttctttac 240

aaaattaaat cattttgaca atttctcagc gaattaagtc accaactaaa aaaaaagacc 300

tcattatcag gtaataatct actaatgcta ta 332

<210> 20790

<211> 531

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20790

gcgcaccccg ancaccacca cacatcgcca cgccatcctg cggaaaaata tcgacacacc 60

cataannnca aaagaggcgc aatgaacctg agacacgcan nccgngaacn naaaaaacnca 120

ccccaanana nnnaaangag nnaagggccg tataatatat taacacaggc aagngggcgc 180

aacgggggccc cacaaaaata aaggacgctc cccaataccc ggcaagtga cagagccagga 240

aatgcgagaa caccggaaca caccctctta attgcgggaa taaagccgca gcaccacaca 300

cgaacagggc gaccacagac gtccatcaga ggaagacatg gccacgactc ccataagaaa 360

ttccaccac cccgcccgc gcaaacccaa tgtggggacc ttaccacaaa acaataacaa 420

cctcgaaacc caccgaacc gaaccccgcc gcaacagaaa caaaaaaac ccaacgggaa 480

aaccaacca actgacacca aaacaccgga ccaacctaac caaagaaaaa g 531

<210> 20791

<211> 370

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20791

ttcttttgtc ttctgacgca tgtatgtaga ttaataacac gattntgttg ctgttggttg 60

tcgattgatt taatctctgt tcctcaattt acaactttga tcgaatcttt gttgcttctt 120

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**NEW**  
**YORK**  
**PUBLIC**  
**LIBRARY**

<400> 20792

<210>	20793
<211>	431
<212>	DNA
<213>	Glycine max

agctttaatt	agaaattgaa	ttttattaca	ataatataaa	catgggttgc	ttataggctt	60
ctgggtgggg	attacttata	tattcttgaa	agcttttgat	ttggcttgta	cgtaatacat	120
gaattagggt	gtctttat	taatgttcaa	cctttttatc	ttggttcatt	tagttatcta	180
caattaatta	gtatagtgg	gtaacaaact	aaacaagtta	ccataatggt	tcattctatg	240
tactgaattg	gaaataatta	gctatttctt	ggttctatta	gtaagtttat	tttttatttg	300
caaaaatatt	tctaccaacc	aatttttctt	cgtccaaac	accatgatga	aagtttttat	360
tcacagtaat	tggaataatc	ttctataaga	tgacacctag	tanaaagtnt	tataaatgat	420
aaattatgat	t					431

8713

<212> DNA  
 <213> Glycine max  
 <400> 20794

tggctaatacc cgaccaacc caggcatagt cagtcagtga taacctgtga cgtacctaaag 60  
 caggcgagct cctgacagtc aaccaataaa agaacaaagt ccacgaagca aggaggcttg 120  
 tgtggtggct gaccagctat ttatcttagg tggtatctga aaattaccct ctggtaatcg 180  
 attaccattc gtgggtaatc gattacaggg tttaaaaaaa tggagacagg atgttaagta 240  
 gcttctggaa tcattaccaa ttgtgtgtaa tcgattacac agtatgatag ggcactggta 300  
 atcgattacc agttgtgtgt aatcgattac atagtgttac ctgctactag taatcgatta 360  
 ccatttatgt gtaatcgatt acacagtgtg acttttagatt ccactgtgc 409

<210> 20795  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <400> 20795

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 accatgaaga tgttaagtgt acgagtgatt ttacaaaaga aggttgcacc actcaaagca 120  
 ttcatacatc caactatttt agggacttgg tgcctaataa tacctatttt gggcaccaac 180  
 aaggcacaag gatttaagct cttgcgaacc aaaccctcat ccaacaactt ctttacttga 240  
 ggaataaact caagcccaag aggtgtggca atactagcaa atgtcttttt acaaaagaga 300  
 aaatgtggag gttgtctaaa agggaaagtt tctttaatgg ttgtctttat ttgtaaata 360  
 gtttccttct tagctaacct cttggaggag acacttacct tcttacactt ctcttttacc 420  
 ac 422

<210> 20796  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20796

tgtaggatta tggggtagcc atcacatgtg gtactaggtg tcggnccggc gatggtgcac 60



attctgcatc cttacatttc atccttaa at aggtcccaat atatatatat atatatatat 360  
 atatatcatg ggtacatgaa attgttaatg aaaattatct ctcttaaaga gtacttttaa 420  
 ttntaaaaaa ata 433

<210> 20799  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <400> 20799

agcttattgt aacaaaaagg aagatatattt tcttatcttt ccaaggacta ctacacagtt 60  
 caatttgaag ttatttagtg tcctctaagc actgcacaag gcaaataagg caagtaagca 120  
 caaaatatga aatttagcta taattctcaa ttaattctcaa tcatatttgc ctaagaccaa 180  
 aactgaatta aggtgagtaa ataagagtca aggagatagc aatgagctaa gaagaatata 240  
 aaaatattca acaacaaatg ctcaatcaaa gtctatctcc tatcatcagg gcacccacca 300  
 agatcggaag ctgtgtaccc tacaacctcc aagttgtcaa ctctcatata cacaagcata 360  
 gactccttag tcttctacaa gtacctcatc accttcttag caactatcca tcg 413

<210> 20800  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20800

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<212> DNA  
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<400> 20801

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gtgggtggga taaatatatg cgtacgctta aatgtcacga gtggcaacca gccctaccac 240  
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<212> DNA  
<213> Glycine max

<400> 20802

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<210> 20803  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 20803

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 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 aaaaaagaat gttacaccaa ctcttcttta attangagtg tgtaaagcaa cgtaaaataa 360  
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<210> 20806  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 20806

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<210> 20807  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 20807

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 tttttccttt ggaaaaaaa aattgtctaa acccgtttgt gatacttctt attctgattt 360  
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<210> 20808  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 20808

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*(The page contains faint, illegible markings or bleed-through from the reverse side.)*

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<223>      unsure at all n locations
<400>      20809
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<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
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<210> 20812  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20812

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<210> 20813  
<211> 410  
<212> DNA

<213> Glycine max

<400> 20813

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<210> 20814

<211> 412

<212> DNA

<213> Glycine max

<400> 20814

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<210> 20815

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

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<210> 20816  
 <211> 410  
 <212> DNA  
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<400> 20816

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 <213> Glycine max

<223> unsure at all n locations  
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<210> 20818  
 <211> 394  
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 <213> Glycine max

<400> 20818

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 <213> Glycine max

<400> 20819

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<210> 20820  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 20820

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 <212> DNA  
 <213> Glycine max

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403

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<212> DNA  
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<210> 20824  
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<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
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<210> 20825  
<211> 413  
<212> DNA  
<213> Glycine max



<400> 20825

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<210> 20826

<211> 412

<212> DNA

<213> Glycine max

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<211> 407

<212> DNA

<213> Glycine max

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 <213> Glycine max

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 <213> Glycine max

<400> 20829

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 ctcagccaca acaacagcaa cctgctcctt ccttcagaa tgctgctggt cgaaatagac 360  
 catacgttcc tccaccagtg caacaacaac agtaccaca gcatcaacag a 411

<210> 20830  
 <211> 411

<212> DNA  
<213> Glycine max

<400> 20830

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aatcaacacc tgtcgccaga ctctgtggat tatgctcttc tgccgaccac cacacagacc 120  
tttgcccttg tgtgcagcaa tctgaagcaa ttgaacagcc tgaagcttat gctgcaaaca 180  
tctacaatag acctcctcca cctcagtagc aaaatcagcc acaacagaac aattatgacc 240  
tctctagcaa caggtacaat cccgagtggg ggaatcatcc caaccttaga tggtttaatc 300  
cttcacaaca gccgcagcag atacaacagc cttattttca gaatgctgct ggcccaagca 360  
gaccatacat tactccacca atgcaacaac atctacagcc ccagaaacag a 411

<210> 20831  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 20831

tggtttattga gtttagacaa taatgcatga ttagtgccca aacttgatga tttttttgt 60  
gcatactttc tttgatcgac agtttttatg tatatacttt ctttttttga cagttatttt 120  
gtatgtgctt agaacttata atttaggatt atcctccatg agctaaaatg gataattatc 180  
agaatataat ggtgacgtgt gggaatgtga gatcatgatg cgttactttg cttttctgtg 240  
tttaattctt aatttgctag atgagaaaaca atttcaaagc aaatgttctt cgcttttgac 300  
aaagaaaaac agaaggattt ttttaataaa ctatttatta ccgtgtgttt ccttcggcag 360  
ctaaacattc gcaagccgca acagattatc tagtctcaag ctaagact 408

<210> 20832  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20832

tttgcttgca agctntgagc aaattcaaac aacaataact ttttactcgg atgtctgatt 60  
gagtcccgta atatatcgag acgctcgaaa ttgaatgttg aacctctgag ccaattcaaa 120

cgacaacaac tttttactcg gatgtctgat tgagtcccg aatataatcga gacgctcgga 180  
attgaatggt gaagctttga gcaaattcaa acgacaataa ctttttactc ggatgtctga 240  
ttgagtcccg taatataatcg agacgctcaa aattgaatgt tgaagctctg atccaattca 300  
aacgacaata actttttact cggataattg attgagtccc gtaataatac tagacgctcg 360  
aaattgaatg ttgaagctct aagccaattc aaacgacaat aac 403

<210> 20833  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20833

agcttgctca tctaagtaac ttttatccaa aataattttc atatttgcaa taattgagca 60  
tgcacgatag tacgcaaacg gaaaggattg gggtatatat cgtatgtatg tgacataaag 120  
aagaaaaatg aaaacgataa taacgatata gattttttat tctattttta tttgaataaa 180  
gtaaaagtaa tgccgacttt tcaaataat attcaggatc taagtaggcg aaattaaaca 240  
cgaaaattat acattgaatt gaataaaaat ctaaaatcat actcgttcaa ttcaccatga 300  
tttgatgcan atgtatgtn tctttctacc tctctctttg cctgaatatg aaatcgatca 360  
ctccaagctn tnntctctc actttntatc attatgaatg gat 403

<210> 20834  
<211> 416  
<212> DNA  
<213> Glycine max

<400> 20834

agctttcttcg tgtgctgaag tatactacag agagaaggat ccaagttcca aagaagtttg 60  
agagataatg ttgtgcatag acctgcagag accacaactc ggagaggaag ccgtcctgag 120  
agcttgatat gagttcgtga gtgaatgtga cgacctagac gtggacgata catccccgct 180  
acttttattt cttcaatcct tcatctttct cttctctttg ttgtaaagga agcttcttag 240  
ttatggagag ctaaatecct tgttggttct tccttgtagg tacttgatgt aaatatttgc 300  
atatctattt aatgatgttt tgtgtgttca ctgtgctatc agaacttcat tctaccatgc 360  
ttttgccttg atcacataga tgcattgcgtt tttagggtca ttcaactttg gaaact 416

<210> 20835  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20835

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 aaataaaata attttctctt tcaatgtacg attcatatgg tagttaattt tgtagttttg 120  
 tacttcctag tttatcaagg gattttcatg cataattcat attggcattg aattataatg 180  
 ttattttgtg tgttctgttg gagatccaaa aggttcctta agattcgttc tagctcattg 240  
 tcatgaacta tagttgcagt tggttgattt tcaaaattgg tagccaagtt gttatctttg 300  
 ttctttttaa ttccttcgaa gcacaccatc ttgattccaa aaggaaacat acatgtaaaa 360  
 acttgcaatt tnttcttaat atattgtcaa aactcacaat taacagatct ac 412

<210> 20836  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 20836

agcttgcttc ttaagagaga gagagagaga gagagagaga gagatcagca aaaatggatc 60  
 aacggacaaa catgaaatag gaatgatgca atatgaaaag tgagggatgc acttttgaaa 120  
 acaattatca agggcaaagc cgcataggat cggcagaaaag ggagaaggaa aatgataaaa 180  
 cttgaaattt attgaaattg aaagaagtgc ttacaaagtt gtcctaagta gagcacctct 240  
 cttctcagac tectgaaaat ggctaaatga aagggtgcct cacaacatgg tcgaggactc 300  
 cttttatagc caaaaacatt actgtttgct acagtaccgg taacttgacc gaaactatta 360  
 taataattac tacaataccg gtgaaataac cggaataatc atgaaacggt tatgtaa 417

<210> 20837  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20837

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 cggtgtttca aaataaagct cttttatcaa gttacgcaca cattcgagtc cattcagggc 120  
 ttcgggaaaa atcttcattg cattcacctc tcaggtgcac acacattttt tttctttcaa 180  
 aaatcttttt atgttccgac ccggtgaattt tccgaagaaa aaaaaagcgg ttattttctt 240  
 tcaaaagcat gttcgtntt agtttttttt tagcttttcc tttcaagcaa atttcttttg 300  
 tgttagaaaa ggtttgtaac ccgggcaaag tcggtaaccg agattacact ttatcaaaag 360  
 gaaataaagg catacgaatg caaatacaca agactcccta ttttttt 407

<210> 20838  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 20838

agctttaaat taaacgtcct ttctcacctt gattactccg aagctgttgt gtccttcct 60  
 tggcaagttt gtcctgaag attgtgaccc aagtgaagt agcactgtag gttcggaaag 120  
 caatcactgg aatcctaaac tcttggtcaa ctcccatgac aatcgttgac atgagtccat 180  
 caactatgat gcaagatggt tgctgccact gatcaccatt tttctcgaga agtcttgaga 240  
 acaattctcg gaactctttg gcaactaagg atctggcgct aggagtgata agcattggaa 300  
 ggtagtttat tacggcacct tttctaggat tgctcagagg tatgccatca gtgatggatg 360  
 caaagaggaa atcgggaaat tgagtgtgga atgagggtaa atctgtgaa 409

<210> 20839  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20839

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 ggagttcatt aataggtgcc acacattgat gcaaagggtg ctacaactca tgttttagct 120  
 gcccttgtaa ctcttgatc tgacaaaaac ctgaccgtaa agtatggcca gcatagatgc 180  
 atttggtgct gtgactcaac acttcaaaaa tgagatggta tctatcacca atatttctcc 240

cggttttctg attaaatggt gatgctaattg cagatcccca tgtcaaattg cttgatcaaa 300  
 taaaatatct tccagattgt tgacaagata cgtgttgaaa tggatgcctt tcttgaaaat 360  
 gggtcccatg aagctactat agctgttatt cgtgcgt 397

<210> 20840  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20840

agcttgtatg attatggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60  
 gcacaacaag ttttccacat ccacaaatcg cgcataaacc caccatcccc tgttgcccac 120  
 ctccaactga gctcacgtac tcccacgtag cccatatacct cgtttctctc aacaccgggt 180  
 ccccataaat cctcccaagc tttcccaaca tccaagtaat acaacattca aacagcacia 240  
 attatcacag ccaagcaaaa cagggcaaag gtagaaaact ctgccaaaac accaaccaaa 300  
 atcacagctt ttctactta aagaccccag taacaattcc tttgttccaa ttcgttaacc 360  
 gttggatoga ctccaaaatt ntactggaag tctctcgtac ttaagcctac attg 414

<210> 20841  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20841

agctnttgtt aacgtaattg ctctacata ttcagggtgaa aatgagaagt tctttatgta 60  
 ttaacaagtt tatgcatata tccgaaaaat tcaaagttgc tccaaaatta aattgacgct 120  
 catcgataat gtaactagta aggccaaagg tggaaacata tcccaaaata atataacagt 180  
 atacgtcaat atttcatgat atttagtgtc aatggttgca acttgcaaga aaagaatata 240  
 ccaaagttac aagaatgtca acaaattnta aaactagtta tcgtattcct tgcaatcatg 300  
 gcaaaagtcc ttgataacce ctctgtggca actatitttag taagtataga acaagtaaca 360  
 aagtaattaa tattaggaaa ataaaatatg caagaaaaaa aga 403

<210> 20842

<211> 410  
 <212> DNA  
 <213> Glycine max

<400> 20842

agcttatgct tctaaaaagc tataggtaat gtaatgtaag aagcaagtgt atgatgaatt 60  
 acttcatggt tctaattctc cttatttagtg attatctaata taacaatttc atgaaattaa 120  
 cagcttcttg aatacattgg cattttcaaa gatcatgaag aaatgatgata aggtgaaaat 180  
 tcaattaccc ttcacttcat tttactcatt taaactttat tatctgtact atcacttgac 240  
 atagtaactt cataattcag atcacgtcaa gagatgcagc tgaagcttat atgagaatgg 300  
 tggacaactc ccaccttgga agttctgatg aggtgagagt gctaataaga aagtctccca 360  
 ttgagattca ttattctttt acatgtaact tctatacacc gttagttaa 410

<210> 20843  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20843

agcttgatat aacatagtca aggctgtttc cactatatgt ccgtgcttcc tttctaccag 60  
 accatcttgg tgggtgtgtat gagggcatat gagtctatga ataataccaa gctctgcaag 120  
 atacttagta aaaggtctgt attccctccc ccaatcagac tagacagctt taataggcaa 180  
 attaaattga gttttcacca tagtttgaaa ctgtgtaaag ataggtagtgt tctctgattt 240  
 atttttcaac aagtacaacc aagtgaaca agtgtgagca tcaacagaag ttacatagta 300  
 tttataaaca gtgtaaatga gttcaaaagg agttgaatac acagtaagag agggagagga 360  
 gggaagttat gagattcgcc aatgcaacaa tgggaacaan agtcagaact t 411

<210> 20844  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 20844

agcttattaa agtccttact gatccacatt gggtatgtat gactgcattg aatgagatga 60  
 cgtgcaaagt taggaattct aatttcagtt gttgcaattg atgcactcat aatcaagaca 120



ctcgagtgc t g a g a g a a a c a t t a t t c t t g t g a t g a a t g a a g c g a g c g t g a t c c c c c a t t g 180  
 a t g t a t g t c a t a c t c g c t a a t c t a t t g t a t a t t a t a t t g c a t c t t g t g c a t a c t t t t a t c g 240  
 t g a a a c g g a a c c a g g c g c g a g c t t t g t g a 268

<210> 20845  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 20845

a g c t t g t g a a a t c a a t g g a a t c c a a g a t t c t g t t t g a c a c a a g t c g t t t a a t t t t g t t c t 60  
 t a g a a a t g t g a c c t a a g c g c t t a t g t c a t t t c c a a c a a t a t t t a a t t a a a a g a c a a c c t 120  
 a a a c a c a t t g t t t c c a g a t g a a c a c a a a t a a c c c a a t t t g t c c a a a t a a g a a a c c a a a a c 180  
 c a a a t t t c g t c t a a a t g a c g g t a c a a c a a a a g t g t c t t t c a a t c c a a a t a a a a a c t a g t 240  
 a c a t a a t a a t c t a a a a t g c c a t a t a g c t t c c a c c t c c a c c t a t t t a c c a t c t c c a a c a t a 300  
 t a t c c a t c t t t c a g a a t t a a t t g g c t t c c g g t a g c t t a g g c a a c a c t g c a t t g a a a c a c t 360  
 g a t g t t a g t a g t g g c a c c a g a c t c t a a c c a c c a a g t g t t t c t a a g 405

<210> 20846  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 20846

a g c t t g c t a c a t a t c a c c t a t g t t c a c c a c t a g g g t t c c t t c a g a t g g g t t t a t a t c t a t 60  
 c c a c t c t c c c t t a t t t g a t c t g a c t t g a a g c c c t c c t a t c t c a t g t t g a t a t a a g a t a g t 120  
 a a t a c a a c t c a t a t c a a t g t g c a t c c c a a g c c c c t c a a c t t g a t c t t c t a t a a c t t c t g g 180  
 a g c t g a g t a a t c g t t t t a c c c a a c a t a t c c a a c c a t g a a c a c t c c t t c a t a c t t g a t t c a c 240  
 t t c t t g t t t g t t c t t t t g g t t a c t t t c a t c c g a t a g t c t t c a t g a t g c a a a c c a t t t a c c 300  
 t t t c a a a a t t t t a c c t a t a c c t c a a t t t t t g c t a c t g c a c a t g g t a a t t g g t a a g c c t a a 360  
 c a a g t a c a t g g a a a a a g g a g a t a g a c c c c a c t g g t t t g c a a g t a a a c t a a 411

<210> 20847  
 <211> 409

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20847

agcttgtaat tgaacaatgg aagatcttga gaaattcaat cggctcttaac ttttcactcg 60  
gaagtccgat tcaggcgcat aatatattga gacgctctcg tgaaattcaa atggtcataa 120  
cttttcactc agagggtccga ttcaggcgca taatatatcg agatgcacat aattgaacaa 180  
cggaagctct cgagaaattc atatgggtcat accttttaac tcggagttct gatttaggcg 240  
cataatacat tgagacgctc gaaattgaac aatggaagct ctcgagattt tcaaattggc 300  
ataactttta actcggagggt ccgaatcagg cgcataatat atcgagacgc tcaaaattga 360  
actacggaag ctctcgagaa attcaaattg tcataactnt taactcgga 409

<210> 20848  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 20848

agcttgatcc ttgaatcttg attcttgaat tcctccttct tcttgaatct tgaagtgttc 60  
ttcaactttt cctcttgaga cttgaattga tcttgattcc atcttgaact catcctttga 120  
ttgacctttg agtttttgtc atcacctttg tcctcatctt ttgttatcat ctttgctatc 180  
atcaaaacat ctttgaatca ttcttgattc accatgaagc tttgcttcta cacacgcaag 240  
ttcaacgaag gggatcttgt cttaaagaag gtataccacg cccagatgga ccatatggga 300  
aaatgggctc caaactacga atggcctttt gtcgtgaata aggcctttat caggcggagc 360  
attggtgctt gccagcatgg acaatgaac 389

<210> 20849  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 20849

agctttacat attgaagaag ctattcttga acttggtatg ggggcgagtc tctaacaatt 60  
tcttttggaa atatattcct agactctaac actctgaatc cgataattag ttttaagggg 120

aatttttttag aataaaacac taaaaataga aaaggggtac tcttagtaaa tgaggggatg 180  
 tatttagcaa ttgcatatt ctagtgattt cacatcctca ttgctatcat tattcttttt 240  
 ttccaacttt tttttatata gaactctttt cccactttac tttcttgccg tccggatggt 300  
 catgcaatag agagaaattt tcttaattca gttttgacaa gatgtggtct attaatcttc 360  
 agatatccat atcgtctatg gaaagatctg tttttaaagc gagtttaatt gtatt 415

<210> 20850  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 20850

agcttatatc ctttggatcc aactttgttt aaggcttctt tgaccaaga atcaaactat 60  
 tagttctatc ttattctcat ctttgtataa aatcccatgg gacaaggggt tgaaggctct 120  
 ctggctctaa ctctaacaac cgaccagggt gttggcacac aacattgatg ttgtcttggt 180  
 ttattgcata ccacacatgt cgggctacac actgtgtgca aaattggggg tcacatggac 240  
 ccatttcaat ccaatcaagt tgtaagtcaa aacatatac acaaacacat tgaccttcag 300  
 tatcatcttc atcactatca tcaatatact ctattgcata aaaccgacct ttagtaatgg 360  
 catcattctc aattgcatct ccatgtctag attgaccgtc agagatcctt 410

<210> 20851  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<400> 20851

tgttttattta acaaaattgc ctcaatcatt tccaaatatt catgtgaatt aggaagcatc 60  
 aacaagaatc aagccaaggc tattgtgcaa gcaatcaatg gggcaaaaca caccaaata 120  
 ttatgatgat ggatgggtca aattctcaca aaggtaaact catcactttc aaattgagct 180  
 ttcaaaacta tcatgacatg tagaggagaa tcaaggattt caagtcacaa aatgtcaaga 240  
 actttttatt tcaaaacaat tacctgttag ccaagtggcc tcagatatct taagaagggg 300  
 gggggggggg g 311

<210> 20852

<211> 408  
 <212> DNA  
 <213> Glycine max

<400> 20852

tggttatatca acaactgttt taagatattg taaattctat gcactttggt taaactacaa 60  
 aatcattgct tcaaaagtta agagatgatg ggtgggagcc attaaagatg tcaaaaattt 120  
 ttgtgttagt aatgttattg atattcttga ttttaatact caatatttaa gaactcgagg 180  
 taagccccgt cataagaatg ttgacacttt tgtgactatg gagaaccggt ttagatatga 240  
 catatttaca actgccattg actttcaatt acaagagctg aataataggc tttgtgacct 300  
 aacaatggaa ttaattattt ttagctcagc tttgagtctt aaggatgttt ctaaatecct 360  
 caaagttgat tatatatgaa atttagttgc ataattattat caaaggat 408

<210> 20853  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 20853

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 aagaaataat aaacgctttc ctacataaat tcataataaa gctaacattg taaggaaact 120  
 aaaaactcca acatttgatg gcataaggct agcaaggagc tatttaatta ctcacctgaa 180  
 cacttatatg atcacttttc agttaataat tatgcatgga atgcatgaaa tcataggcca 240  
 ttatttcctt ccgttgctac aacttgcttc taataatgga caatccctga tgggtcaatac 300  
 taaaagagaa gaaaccaatc cctctttatg taaggatata agttggtgag aacttgacat 360  
 ctcatgggtt tcaagagatc taagatgttg aagccacctt ccatccaagc atttt 415

<210> 20854  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 20854

acccgggatg ctctcaggca cctgaagctg ctgcttttgc gaccatagta taagactggt 60  
 aacctcctct atcacgtaca caagatggct ttaagcatat atacgtgcat gaaaaggaag 120

tatccaaatc tgtgaggac gagtactcca ctacaacatc agcctatcaa tccttattat 180  
 attgttgaag gtcctaacga gacgtatgct tattctccta tacaacgaca actgcatcaa 240  
 ctacaacaac aactgtctca acggggacat cagcgaattg ccgctcctcc tcctccttgc 300  
 ttacaagagt taatgacgca tccgaccatc cataatatgc tcttatagcc tgagaccaga 360  
 gcctctattc ccattctgac ggatctaatag tggcagatga ctacttattt g 411

<210> 20855  
 <211> 79  
 <212> DNA  
 <213> Glycine max

<400> 20855  
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 aggatcctta ctattcaca 79

<210> 20856  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 20856  
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 attacgaaaa aaaataaatc tcccttatac ttggatgtct ttcgtatata ttttttcaca 120  
 ttacaaatac tatctggtac aaaaaaaatt taaacagcta caaatgtaca aactttgttc 180  
 acttttattt ttttttttag ttaagctaaa gtgtatgata aaaccaattg ttttaattaat 240  
 cggatgaatat ggaataactt aacatttaat aattatgagt gtgtgtgtgt gtttaaataa 300  
 ttattacatt tcataatctca atttatttca aaaaaattac agtaaaccct tatgtcctcc 360  
 ttaaataata ataataatga taataataat t 391

<210> 20857  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20857  
 agctnttagc tcaaatttct ggctaactta tcttttattc cactaacgac agagaaagga 60

tttaaagtct taattaatgt agttttaaaa ggatgttgat ctctccattg cgtangcaag 120  
 agcaagacaa cgcttaccaa acaaaaaccg ctcttaattt ttaaaacata taataaaatg 180  
 ttcccttatt ataataatca aattgacttc aattagcata aaaataatag ccttttagtgg 240  
 gacaatccat agtaacctag gaaactcagt acaatacac attaaaaata caaaagccca 300  
 aggatataat atgcttcaaa tatttgtttt ccacactcaa attgccatat cacgggtgaa 360  
 taagtgaatt caaaccaaga tctaaacaaa nagctatc 398

<210> 20858  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20858

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 gtggatggca cctcctctca cctcttctca tttgtcttcc gctgcatctc catggtggaa 120  
 aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180  
 gcaagcttcc atcacaagat accttggaaca cgcattgtata tggcaaaata gctcacaaaa 240  
 tatacgtatg tttaggtagc aaaatacctc aaaaaaaaag agagagagca aaaagagagc 300  
 gagcaagaaa agaataagaa aaaaataata ataaaaagtt gtctagctaa aaaacaacat 360  
 gcttggtgaaa agagataatt tccaactttt ctttgaaaga ttntactgat ctta 414

<210> 20859  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 20859

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 ctgttaactc agaggcccga tctatgcgca tagtatactc agatgcacat catggaacaa 180  
 cggaagctct cgagagactt atatggacgt gacctttaac tcggagttct gattcaggca 240  
 cataacacat tgtgacgctg gagatggaac aatgaatgct gtcgagactt tcaaatggac 300

ataactgtgg acgtggaggc atgactcggg cgatgagata tagagacgct cataatgaac 360  
 tacggaagct ctctagaaaa tgaatggcac ta 392

<210> 20860  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 20860

agcttgattg aacagtgcac ttatattatc cagtgggtga tacttcattt tggaattcag 60  
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 catgtgccat gaatgagcat gcagtcatta gaagagaaaag aacattgaat taggatcatg 180  
 actaaaaatg ttagttgggt tgtcaagttg attgtgaagg aacgcattag ccgcaacccg 240  
 gtgaaagtgt gatctttaat tgtgagagaa tgactaacat tgagtaatga ttcttgcattg 300  
 aatatctgag tatggaatga atgtgtgaaa ttgaagatga tgaaggccat gtttggattg 360  
 aagatagcca cttatctaaa aagcttacct tgtgcatgat tgatttatcc ct 412

<210> 20861  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20861

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 gttcaaatcc ctcttcaca aaataggctt caattttgct ataccaagca cgtggtgctt 180  
 gctttaacct atataaagct ttcttaagct tgtagacctt ctcttcttca ccctttcgaa 240  
 cataacccgg tgggtgttcc acatacacgt cctctgtcaa ttctccgtga agaaatgcgc 300  
 ttttgacatc tagttgatac acattccatc ccttttgtgc tgctagagct aaaaccatcc 360  
 ggattgtgtc ccaccttgct accgnggcaa acacttcggt gtagtcaatc ccttg 415

<210> 20862  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 20862

agcttcttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60

gtggatggca cctcctctca cctcttctcc tttgtcttcc gttgcatctc catggtggaa 120

aatcaccatt aaaggacctc attgaagctc aaagatccag ccttcataga agccccacaa 180

gcaagcttcc atcaagtggg aatcagagca caagagcttc aagtaggtgc tccttaaacc 240

tccattaatt tttttgcttt accttctctt ccattgttgt ttcttcattt ttctccatgt 300

atctcctcac atgtcttgtg ctaaagtgtg ttaacatgat tctttagatt ttccaccgat 360

taaacttgct atagaagcta gatttgattt tctatggttc aaatttctt 409

<210> 20863

<211> 402

<212> DNA

<213> Glycine max

<400> 20863

ctgcagctta ttgttgcccg agtcattcat ccctatgaga tgttggtgaa gtattggcga 60

tcagaattgc cattcggttg attatagggt tgaaccaagc tcatgctttt acaaaaaggt 120

tcatcaagtc aagttgaaat atggaagtaa ccgtcttgca aaattggggc aaaagatgaa 180

tcgagtcaca tcaactgctc gtctactgcc aaacatattt aggattattg atgtccttgt 240

tacttccagt ttcaccttga caaagatgtc atggaccatg ttgaaaatct aaattgattc 300

aaccccatat cttgcgtaaa aattcgcaat acttcaactg tacatcattc gcatacatcc 360

atgcttttca ttggttgcat tgctcattgc attctttcct tg 402

<210> 20864

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20864

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atagcctgta tcaagtcaga gttggtgctt catatctcat ggcattgaaa cttgccacct 120

gtcatttttaa gagaatcttg ctcaatgtaa tattgtaatc tcaatctgca aattgcaaaa 180



taggtgcct gcatgccaat gatacttgat tgagtaatga ttgatgaaca tctggtaact 240  
 ctaaacacct cattaacacc tattatcttt ctctcccat cacatcatat caattaccat 300  
 agctatattt ctttctcttc tcttttattt ctctctctag gtgtcatcta gagtggacat 360  
 gtccactaac aatntttgga ttttaatttcc tattntcttc tttgttcttc a 411

<210> 20865  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 20865

agtttgtgtc acaattcact gtgacagtca aagtgtcatt cacttatcaa atcaccaaat 60  
 gtaccatgag aggacaaagc acatagatgt gaaactacac ttcacagag atgtgattga 120  
 atctgagaag gtgaagggtg agaaagtttc aacagaagaa aatccggctg atatgttcac 180  
 aaagtccctc tctagtgtca agttcaagca ctgcctggac ttgatcaatt tcgaagatgc 240  
 ctaaagcagt ttggtagaag tgcagcccta aatcacaagg aagacacttg ctgatttgga 300  
 gtcaagggtg agatttgtgg tgtgtgactc aaaatcacia tttgcacaag tgagaaggct 360  
 ttaaagtggg gttgtcataa atgttatcaa gtattataac tgaattg 407

<210> 20866  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 20866

ctgcagtctg tttcggaaac agcacaaacg gaacacccat gaaggaagga gcgctttgag 60  
 gaaggaagaa gaaaaacaat agcggcagac tatgcagagg aaggagggtt ttttaaattt 120  
 taagtgaaaa acattttttac cattccactt aaattactgg atgtactagc aataatagtg 180  
 ggtgcacatt ccacttaaatt tactggatgt actaacaata atagtgggtg cacctagagc 240  
 acccgaataa cttatatattt tcgcacctt tggatcaagt tctgaaagtg aaatatggat 300  
 ggatgcagag atgtgtctat cgtgataata tcaattcatt tgaaaaatat acacgtgtat 360  
 ggtgtgtttc tagaatgtca ttacccaaaa ctcattatgt attgatgaaa tg 412

<210> 20867

<211> 414  
 <212> DNA  
 <213> Glycine max

<400> 20867

agcttgtaca acatccatgc aaaacaacat tcaaacagca caagctatca cagccaagca 60  
 aagacagagc aaaggcggaa aactttgcc aacaccaac caaatcacia cttttctcac 120  
 ttaaagaccc cagtaacaat tccttcgac caattcgta accgttgat cgactccaaa 180  
 attttactgg aagtctatag tacatgaacc tacattgtga ccgttggat ctactagcaa 240  
 acatccagaa ctcatctgt actactctt ccacagcaa ccacacacia gcatttttct 300  
 gcacaaagcc aaaatcctgc tgcacctatt ttgacagcaa aattctgcat aagtgcagat 360  
 ttcgaaaatc acacttcct tcaccaatc ttgccaaat caaatgctac aagt 414

<210> 20868  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 20868

agcttattcg taacaaaaag gaagatattt ttcttatctt tccaaggact actcacacgt 60  
 tcaatttgaa gttatttagt gtcctctaag cactgcacia ggcaaatagg tcaagtaagc 120  
 acaaaatatg aaatttagct ataattctca attaattctca atcatatttg cctaagacca 180  
 aaactgaatt aaggtgagta aataagagtc aaggagatag caatgagcta agaagaatat 240  
 aaaaatattc aacaacaaat gctcaatcaa agtctatctc ctatcatcag ggcacccacc 300  
 aagatcgga actgtgtacc ctacaacctc caagttgtca actctcatat acacaagcat 360  
 agactcctta gtcttctaca agtacctcat caccttctta g 401

<210> 20869  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20869

agcttccttg agacacttcc ttgagaagct tacatgagaa gattcctaga gaagctagag 60  
 cttagctaca cacacctctc taatagctaa gtgcacctcc ttaagatgag aagctagagc 120

ttagctacac accccctata atagctaagc tcaccccatg acaaaatata tgaaaatata 180  
 aaaaaagtcc ctactacaaa gactactcaa aatgccctga aatacaaggc taaaacccta 240  
 tactactaga atggccaaaa tacaaggccc aaaagaagga aaaacatatt caaatattta 300  
 caaagaanag tggatccaac cttggcccat gggctcagaa atctaccctg aggatcatga 360  
 gaaccctagg gtcttcttta gtagctctag cccaatcctc tt 402

<210> 20870  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 20870

agcttattta tagtgatata tatggtggtg cacatggctg tttgtgtttc aaggaaatta 60  
 aattgtacac taattctata ctctactttt aaaatttcca caatttagta ttcaactttt 120  
 aaaatttcat gcattattcc ttattaattt taattaagta attttttgca ttgaaaataa 180  
 tataagaaaa accaaaatac aaaataatta ataaaaactg attacatgag aagtgaaggt 240  
 aagttgtatt tgaaaacatt gtttttataa ttattttttg gttttatttt tgaatcttaa 300  
 aagaatatgg tgaacaacat agaggagggg tggaaggaaa aataaataat ttggtgagat 360  
 tgcgcactaa agattaatac aaagactata aaatataata catgataaat cacttg 416

<210> 20871  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 20871

agctttatgc tgcacaattg ctccaggttg ctgcatggaa gggcaaagggt ctgtatggtg 60  
 gtcagcaaag gagcacacaa accacaaact cttgcgacag gaacagattt ctgattcaag 120  
 gccagctggg ttactaagtt aaccaatgca tccagtttgc cttcaagctt cttagtttca 180  
 gatgatgcag atgggcttgt agctacctca tgcactcctc taatgactat ggcattcattt 240  
 ctggcgctaa actgttgga gttggaagcc atcttctcaa ttaaatttct ggcttcagca 300  
 ggagtcattg ctccaagggc tccaccactg gcagcatcta tcatacttct ctccatattg 360  
 ctgagtcctt cataaaaaata ttggagaaga agctgctctg aaatctgatg gtggg 415

<210> 20872  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20872

agcttgatg attatggggt atccaccaca tgtggtacta ggtggcggtc gggcgatggt 60  
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 ccaactgagc tcacgtactc ccacgtagcc cttatcctca ttcctctcaa cgtcgggtcc 180  
 ctatcaatcc tcccaagctt ccacaacatc caggtaattc cacctccaat catcatggac 240  
 taacaaaacc aagcaaaaca gggcaaaggc agaaaactct gcccaaaata caactcataa 300  
 tcatagtagc ttttcacata caaatacccc agtaacattt ctttcgttcc aattcggttaa 360  
 ccgttggatc gactcgaaaa ttntactgga agtttctagt acataagtct acat 414

<210> 20873  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 20873

agcttggtat tggacaacgg aagctctcga gaaattcaaa tggtcataac ttatcacact 60  
 gaggtccgat tctggcggat agtatatcga gaagctcgga attgaacaac gaaagctctc 120  
 gagaaattca aatggtcata acttttcaaa cggaagtccg attcaggtgc ataatatatc 180  
 gagaagcttt aaattgaaca acggaagctc ttgagaaatt caaatggtcg taacttatca 240  
 cacgggagtc cgattcaggc gcataatata tcgagaagct tggaattgaa caacggcagc 300  
 tcttgagaaa ttcaaattgg cataacttat cacacggaag tctgattcat gcgcataata 360  
 tatcgagacg ctcgaaattg aacaacggaa gctctcgaga aatt 404

<210> 20874  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 20874

gtagatgaa aattagtatt taatgcaagt aaggttagaa attaagtgtg aataattaag 60  
 gttgataaat cgtgatctag atttcataga attagaaaaa gggtaattaa ataataaaag 120  
 tttaaagtgg agggcatttc gtaaagtatt atacaacttg tcttaaaata gaatttttagt 180  
 ttattttatt ggtgactaat taaagtgttt gattatatga tatagaattg tgtgtgtgtg 240  
 tgtgtgtgtg tgtgtgctg tgcgtgtgctg tgtgctgtg cgtgtgtgtg tgtgtgttat 300  
 ttttctattc ttcttagctc aatttacatc tctttgatcc ttactttctc actttactta 360  
 gttgtgatct taggcaaac attgagtttg attaataatt gcggtttat 409

<210> 20875  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 20875

agttgtttct tgagtcatca agagattata aatatgtgac catggcatga gttttaatcg 60  
 ttcatcaatc atcaatcaat aatcaatgat ctatcatcta tcctctatca tctatcatct 120  
 atctttcaat ctatctttct atatcttctt ttatctcttt caacagatct ttctgaatta 180  
 tttctcttca tctttctaaa agtttttggt caacactttc tcttccaaga aaagttcttt 240  
 gttcaaaaac ttgcgctatt catctttttc atctctctct tcctttgcca aaagaacaaa 300  
 ggactaaccg cctgaagtct tttgtgtctc tctccctttg ccaaaagaac gaaggactaa 360  
 ctgcctgaat tcttttatgt ctctcttctc ccttacaaaa gattcaaa 408

<210> 20876  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 20876

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 cataatatct cccaaaaccc catacccacg aaaatcaaga gggaaagaag tccacccaaa 120  
 cctgaatttt cgaagtccca ctgctagcca cgcacttcac gaccccgaaa atgcctctct 180  
 ttgcgatttt ggagcagaaa tgagtaccaa aggttgagc tttgttgggg tttcaatgga 240  
 gaatgagggg ggagaaaatg gcaacgtgag agagagagag agctgtctga aaaagtgtgg 300

gggctgagtg atgagagaga aaagcttttt ggttttaaat aaaaggtttt cctctttttt 360  
 ttttctatta ttttattcaa gctctgccac atgtccctat ttgattggag ca 412

<210> 20877  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20877

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 cttggctcttg ctagtacagc atgaggctgc aaattccgtt gaagcacata ccaatctatg 120  
 attgtgcagc tgagtgatgg cagtttgtct gtcataggta acacaatttt taataattaa 180  
 tatattttta tgtcttctat atccttttga tgctttaaat ttggaaaatt actcttggcc 240  
 ccctaaattt aaagtgatta atttagttct attaatgtga aaatgacca tttttttgta 300  
 ctttataggg tttgttggga taaacttctc aaaagaagta cttataagag aaaaaaaac 360  
 aactaaaaat gaaataagtt nttccattag ttaaaatag 399

<210> 20878  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 20878

tgtctttttg tgggtcttgt tcttcacata aataattaa tatcactgcc taccttctta 60  
 gtttctttcc tgattgattg ctggcattag cataaactat ttttgcttca tgtggttcca 120  
 ataaatcggt agaactgctg tttatctgaa gtaatgcatt actaccattt ttttctcact 180  
 aatgcatata ttgttcactt agattcataa tacacagggt ctggtgccaa gatgagtcgc 240  
 gattttaatt gcattcaaaa acttttttgt cagtgtcttg ttagctatca ttgtacagct 300  
 caatcttcgc cattttatct atgattctta gatctttggg gaatatcaca ttctcaatgg 360  
 aggtgttcga cttttacgtt ggattgttgg ggatgggtcg cacac 405

<210> 20879  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 20879

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ttgatgaatg agagtcttgt gagacatact tcaaagttcc acttctctac cactttttatt 120  
ccttcaattt cgtgctcccc cctctctect tctctccctc tttcttttcc tccattgaag 180  
cctcctctcc aaactttctta tccaaggctc atcttggtgg tgaagctcct tcttccatgg 240  
cttatttcct agtggatggc gcctcctctc acctcttctc ctttgtcttc cgctgcatct 300  
ccatggtgga aaatcaccat taaaggacct cattgaagct canagatcca gcctccatag 360  
aagccccaca agcaagcttc catcataact ttac 395

<210> 20880  
<211> 402  
<212> DNA  
<213> Glycine max

<400> 20880  
agcttggttaa gatcccaatc catcccattc cagacatctt taacctttag gatagaatca 60  
tagatatgca ccaaaggaac ttgcccacaa agaggctcct tagaagctag ttccaccatc 120  
ccccacctta aaaggcgaaa ccacacctta gatccctcaa aatctcaacc cgaaacttag 180  
ttagggagtg cattaagtcc caaaccagtt ttccatgaag agcagtattt tgagaacgag 240  
ccagcctaac acccaggccg tggctactcc tccttttggg aatagtcttc cagttaacaa 300  
gggtggagacc cctactcgta ttctcttcc aaataaatat tatcacagtt ttatgcaatt 360  
catcacaac aaacatattg aggggtaccag ttcaactgca tg 402

<210> 20881  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 20881  
ttgcttgcaa gctttttaac agatttttagt aatgaccac taacctagaa ttaaaataac 60  
ttaatgcat taacctatgg aattaaaaaa acttaatggc tgagtgtaac tgaaattgtg 120  
gcaacaaaa gtcaccccca acagccaaca agtcagccac catttggctc cccaaaaggc 180

tgatgcctat gttgccaatt gggcccttat tacaacttga actaaaccta actaaagccc 240  
 ttttagttga ttaacccaaa acatattttt ggtcagccaa ctttacaagg attgggcaat 300  
 tatttagaca aactaaacac tctaaaattg aaactaagtg gtgtcattta gtcctcctcc 360  
 atttgggcca tgatacaact cacaaccttg gattttc 397

<210> 20882  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20882

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 tgtgtcctaaa tatatggggc aattttgatt tgttttcttg cttgattagg ttgaattagg 120  
 ggttggtatg agatggccct aggccataa tgcattttga aacaatagga catgccacat 180  
 tgtccccgtt ctcttgctat tgatgcctaa acgcgcgccc accaagtgtt cggtgaaatg 240  
 cctcaatggc attagcgtgt gacttttgta aggagacaac ccatggggta ttttggtttg 300  
 tgcataattt ctattttttt ggaatatgta ttcattcccg aaaaaggcta gagtaattgc 360  
 cccacatata tcctagtcct agaaactgaa attntatgca aaaagagcac aaaag 415

<210> 20883  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 20883

agcttgtaga ttggctagac atgatacatg tcagggtttt ggtttggttc aaggataaaa 60  
 gggacgcccc acattatttc catgacacaa atgcaaaaat gatgatttgg aaactttatg 120  
 caaaactggt catgcatgca cctatgtgga cactcaagtg tcaaattttt atggatcatg 180  
 gatgctaggg ctgaggatc atttctcca ttttagtcaa cccaatgttt ccaaaatatg 240  
 ttcttttatc aatttggtgca ttcattccgag tccatttttg gcgtccggtg aaatcttcac 300  
 agcattcacc cttcaggtgt atacacattt tttttcaaaa actagctatg atcagcgaat 360  
 tttcttttca aagaagagtt ggaagtcac tcttttcaaa agcatgttgg 410



<210> 20884  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 20884

agcttaagct tgttgagatt attatattat tacatatttt ctttaaaaat acttaaatgt 60  
 attattaatt aaacacaata aattataaca ttattaatta tttgaaagta ttaaaaaatg 120  
 gaaagaaaaa aaaaacagga tcaaaattcg gggttgtatt cttaacctga ttttgacaaa 180  
 aaaaaaaaaa acaagggagg ggactgagat tcagtgtgtc tgtaacaaat tctcacctg 240  
 aataacaaaa atgtctaatt aggtaaataa aataaaaaatc tcgaagacct ttcttgaata 300  
 gttagagagc ctaatgaaaa cacaaaaatt actttttaat aaagtgtgaa ttttagaaaa 360  
 taaggtcacc ggtattttgg aacttcttag atccaaagac caataaatc 410

<210> 20885  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 20885

agcttctact tatgtggcag ggcgggcttc cttcactttc ttgtctccaa cgcgagcttt 60  
 gaccactggt cttccttccc gcgatgcttc ttttcatgtc cgcttgagtg ggcttatagc 120  
 ctaaaccata cttcccaega tttccttggg tatttatcag gctagttatg ccgccgttgt 180  
 ctttgccata acccatcccg gggtcataac cggtccccaata cataactcgg gccatcatta 240  
 ctgctgcacg ggatagacaa gggtgcccag agagggagtc cacggaggaa atgctgacca 300  
 cctcaaaaga ctggaaagcg gtttctaacg attcttctgt ggcttcacaa taaggcatag 360  
 aggatgggca gcttaccaag atgtcttctt cgcctgacac 400

<210> 20886  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 20886

agcttgtatt gattcagtct aactagggat caaggtttgt agaagtaagc ttcattgatga 60  
 tgaatcaaga ttgattcaag gagttttgat gataacaaag atgatgacaa aaagcccaag 120

ataatgagtt caagattgag tcaagaacac ttcaagaatc aagagaaatt tgatttcaag 180  
attcaagaat caagtttcaa gaatcaagaa tcaagaataa tcaagttgaa gattcaagaa 240  
tcatgaaaag actcaatcaa gataagtact aaatTTTTTT tcaaaacatt gagtagcaca 300  
tgaatTTTTt acaaaacctt ttaccaaaga gtttttactc tctggtaatc gattaccagc 360  
ttattgtaat cgattaccag tagcaaaaat tgttttcaaa aagctttcaa ctg 413

<210> 20887  
<211> 413  
<212> DNA  
<213> Glycine max

<400> 20887

agcttgtatg tcttggatct tcttcacaaa tggagtaatt tgcttcttga agatcaatag 60  
cagcgtaatg gagatggaag aaagatgatt ggagacgcca cttcaaggag aagatgtgtc 120  
aagaaaaaac tcaccacat aggaagtcac ggataagagc ttgaaggtag gagaagatga 180  
atggaggaag agggagagaa ggagcacgaa attttgtgcc tcaaagtga tttcaacttt 240  
gaagtgtgat tctcaaatta tcaaagttga aaaaatgcac atacatgacc tctatttata 300  
gcctaagtggt cacataaaat tggagggaaa tttgaatttc tattcaaatt tcacttgaat 360  
ttgaaattca tgaatttgtg gagccaaagt ttggagccaa aatttcacta att 413

<210> 20888  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20888

agcttgtatg attatggggt acccgtcata tgtggtagt ggtagcgatt gggcgatggt 60  
gaaagtcaac tctccacatc cacaatcac acataaatcc accatcccca gttgccacc 120  
ttcaactgag ctacgtact cccacgtagc ccttatcctc gttcctctca acaccgggtc 180  
cccatcaatt cctccaagct tccacaacat ccaaaccatca tgaactatcc aaaaccaaga 240  
aaacatggca gaggcataaa actctacca aaacacattc aaataccaca gttttcttca 300  
ctcatatacc ccagtaacat gctcttcggt ntgattoget aaccgttgga ttgaatctaa 360

aattntactg gaggtcccta gtacataagt ctacattntg accattggga tctg 414

<210> 20889  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20889

agcttatttag aacaaaattg cctcaatcat ttccaaatat gcatgtgaat tatgaagcat 60  
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaag 120  
 attatgatga tgtatggctc aaattctcac aaaggtaaac tcatcacttt caaatcgagc 180  
 tttcaaaact atcatgacat gtagaggaga atcaaagatt tcaagtcaca aaatgtcaaa 240  
 aactttttatt ttcaaaacaa ttacccattt cttgaacatg tcctataatt caaagaaaaa 300  
 cttgcaaagt cgtacatgcg cacagaattg acccanaata ttaaactaaa aatccgacat 360  
 gtttgcgga cttcacgga aggttgcag ccacgatata atgggtccccg aa 412

<210> 20890  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 20890

agctttttcgc aagacttacg gaaagatctt agagttgacc atagcagagg tgtccataga 60  
 agccattgca gcacttacc aatactacga ccagcccttg agatgcttca cattcgggga 120  
 cttccaatta gtaccaacca ttgaagaatt tgaggaaatt ctaggatgtc ctctcggggg 180  
 aaggaaacca tatctttect ccgggtgtct cccctctttg agcagaattg caactgtggt 240  
 caaggattca gccagaggtt tggaccgcat aaaacagact cggaacggca tagcgggcct 300  
 gccacagaag tacctataag acaaggcgag gggatatggcc aatcaaggag actgggtccc 360  
 gtttatggat 370

<210> 20891  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 20891

agcttgctac ttgaggaggg agganntnn ngcttcttga atatcaatan caacgtcatg 60  
gatatggaag aaagatgatt ggagacgcca cttcaaggag aagatgtgtc aagaaataac 120  
tcaccacat aggaagtcgt ggatatgagc ttgaaggtag gagaagatga ttggaggaag 180  
atggagagaa ggagcacgat attttgtgcc tcaaatgaga tttcaacctt gaatggtgat 240  
tctcaaatta tcaaagttga taaaatgcac atacatgacc tctatttata gcctaagtgt 300  
cacatacaat tggagggaaa tttgaatttc tattcaaatt tcacttgaat ttganatgca 360  
tgaatttgtg gagccacagt atggagccag aatctcact 399

<210> 20892

<211> 355

<212> DNA

<213> Glycine max

<400> 20892

agcttatctg ataatatctg tgagttctac actctaacct atcaatatct tctatgtatg 60  
ttaacttttt ttctgctatc ataagtaatt gatgcatttc atgtgtgaat gctaacaaac 120  
tggtctgcca gaacctgcca aatgtttgtc ttggcattct aaacggctgt gaagtaaggt 180  
tggatgaact gaatctagat ggaggtagga attttgttgt gttgttacca tctcttttct 240  
tctagttccc ataccactcg cattacaatt cctaacttca tcagcagttt tcatcagaat 300  
gatgtgtaca ctctgcacta tgtaaactct ggtatttatt ggttatgcag acata 355

<210> 20893

<211> 396

<212> DNA

<213> Glycine max

<400> 20893

agcttggttat tgaacaacgg aagctcttga gaaattcaaa tggtcataac ttgtcacacg 60  
gaagtccgat tcaggtgcat aatatatgga gacgctcgaa attggacaac gaaagctctc 120  
gagaaattca aatggtcata acttttcaaa tggatgtccg attaaggcgt atattatctc 180  
gagaagcttg aaattgaaca aaggaagctc tcgagaaatt caaatggtca taacttatca 240  
cacggatgtt caattcatgc gcataatata tcgagaagct tgaaattgaa caacggaagc 300

tctcgagaaa ttcaaatggt cataactttt cacacggaac accgattcaa gcgcataata 360  
tategagact ctcggaattg aacaacgaaa gctctc 396

<210> 20894  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 20894

agctttctctt tgtcaacctt cttagccgag tggattgtct agtcttccta gacgtaccat 60  
tgaaaggaat atcataatgt gtaggtgagg gtggggatgt cgtcatgagt atacacaatt 120  
gaaacaaata caattagcag cacatgtcag ttatataaac atatatgtca acatgataaa 180  
aaatgtatga caacatcact tttaacatct cagatatata acataaatgt cagtcaaaca 240  
aacaataaaa atgtacatta agttgaatga aattcaaata cataaatgta ttacaattat 300  
gcaataggtc atatacatta tcaataaaaa cataagcagt tacatttgat tattctccca 360  
taaaccttca taatgatcat ttctagttgc atgtacaa 398

<210> 20895  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 20895

agcttttattg tgttcttttg ttaaggctat gcgtcttttg ctcttgatc tataatataa 60  
agatctttct ctcactgtt cctgcgtctc taccattct catccatctg catgtttatc 120  
tctttatgtt taaaacgcca gatccgacga cgagtccctt gaaggacta atacctgaga 180  
cccgcccatc gacttcgaac aagaaacgtc tcagacataa tatgaagagg acgaggatgt 240  
gagactttcc tcggagtcgg aaaggatagt cgcccaggag gaccataaaa tggggcatca 300  
tcaacaagag acagaactag tataacttggg aactagcagt gtataaaggg aagtatagat 360  
atgcacgagt atgaccacac ccatccgca ataat 395

<210> 20896  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 20896

agcttgtaga atagttaaac gacaacaact tttgactcgg atatccgatt gtgtctcgta 60  
agatatcgag acgctcgtaa ttgaaaacgg aagctctgag aaaaatcata cgacaataac 120  
ttttaactcg gatgtctgat cgaaccctgt aatatatcaa gacgctcgaa actgaaaagg 180  
gaagctctaa gaaaagtcaa acgacaataa ctttttactc ggatgtctta ttgagccctg 240  
taatatatcg agacgctcta aattgaaaac gaaagctcta tgataagtca tacgacaata 300  
actgttaact cggatgttcg atagagccct ttaatatac gagacgctcg aaattgaaaa 360  
ctggagctct aagaaaagtc aaacgacgat aactt 395

<210> 20897

<211> 478

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20897

agacgtgggg tgatgacatc aatcatacag gcaatacanc tnnnnccccg ggatccggtg 60  
atcctctaca gtcggcctgc aagcatgtct tcttgtgcgc atanntgggg tggggtcgag 120  
gaggcaggcc ctacattttt ggttccaaaa cagggaaagc tccgatatat tttcaacgca 180  
gtttaactta cctagaatat ttacctgtac aaacatagtg tatttgtcac tcacatcaca 240  
cacctctgct tggatacatc tacgtacaag catatctaaa gctttttggt gcccaaatat 300  
cgccatggtg cacatcttgg tattctaaac acctatacaa acttcatgat gaatatcgtc 360  
tatctactct ataaagagct cctctacatg ctcattaaag actcttgcta cctaaagccg 420  
catgcagggc caagtatttt taccttcgct gactaaaata gaatttatag gcatatct 478

<210> 20898

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20898

agtccttttta gtcataacct ctgcagttga agaattgggc ttcgagtttg gacttttgtt 60  
ttgtgtaatt agtttagtta gttaattagt taggtagtta gttagttact agcactctat 120

atattagtgt tagatagtta gttaaggact agaacttcat tngagaaaac acttctctag 180  
aacttcattn tgtacaaaac ttgttgtgca agctctcttt ctctttcttt ntctctcaat 240  
tggttcttcat tcttcttcat cttttcactt ctgttccacc atttccttac acaaatttca 300  
tggtttctcc attggtgatg attatggagg gctaaacaat taaccaatcc aaggatccac 360  
tccaagcaaa gctgaatttg agccct 386

<210> 20899  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 20899

agctttgatg gtgcgtagcc caccatcttt tcatagtaga gtatcgataa tgtgtctacc 60  
atcacgatca tcgtctccct ttccatcatt gggggtagca cctgagccgc cagatccctc 120  
caccttttgg gcgtgttctt tgaaagatcc gtcccccttt ttgcaaagt tctgtaattg 180  
catcctatcc ggaaccatat caaaattgta ctgatactgc ctaacaaagg caaccattaa 240  
gtccttccaa gaatggactc gggaagattc caagttagt taccaggtaa cagctacccc 300  
agtaagactt tcttgaagg aatgtattag caattcctca tcttttgcgt attccctcat 360  
cttctgacaa tacatatata gatggttc 388

<210> 20900  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 20900

agtttttgtg atatatttca ccagagacgc agctcccaa acacctcagt acccctcagt 60  
agttagactt gttccattcc cctacaaaaa caaccaccca gttccttgga ggtatgcgcc 120  
tccaagcgaa aggaaggaag aagccacga catcagctcg ttgtcaacca aggtaaccaa 180  
tatcacgggg ctgagtggcg taacctgcag tggtcacatg ttgcacccc ccgacctgcc 240  
aacaccaccc gcaaacgtta aagggaaggc gaaggtagcg gaagaacaaa gtgacaaagt 300  
gatccctact ctggacgagc atattccagt aaaaagtctt tcggcgaaat gggatggcta 360  
tggaagaaa gaagtatcgc tagaggaggc aggtga 396

<210> 20901  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<400> 20901

gcttgttgta gatccattga ccatagccct tgcgaatgca acactagata gatgtggcta 60  
 atcgaggcat cctgcctgtc atatgctcgc gctagaacac actgatgtgc tttttctctg 120  
 aagcaatatg ttgctaagtg tcagaacgaa gaccgtttga atgaattcgc gtacgatgcg 180  
 aaatctatta atgtgcccac acttgatgaa ttctgcacct gctttcttag acatcattac 240  
 gctatatgtg gagtaactgg gctgagcgtg tgattgatga ggtaccagta atcgccagcg 300  
 gatg 304

<210> 20902  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 20902

agcttatgaa ggttgcttaa tatctccaac agaattactg caattaatcc ctaatattta 60  
 taattagctg acagtctgat catgctgata tatatcaata agttaaatTT gatagtgata 120  
 ctgttgata tattaaacta cattgagatt tggcaaaagc aaaaagctat taaacaatgt 180  
 cttgtgttgc attctcattc aagaaacagg tttcaacttc tgtacaaaac agaaaatcct 240  
 tacaataaaa gaaaacagct tctgttcaaa tttgcctcat cttatctgtc tgtgtctcca 300  
 ttagcatgat ttacaggtca ttcaaatgac aggcgacagt taggaactca tccttcttac 360  
 atggtattgt gagaccacc attgcgtgc 389

<210> 20903  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 20903

ttgcttctgg taaagctcat atatgttctt aaacaatttg ccaaagggat catctctagc 60  
 aatgatattc gacctatgac cagctttaac ctgtttcttt gtcttttcta tgaatcctat 120



attgttaatg aaaataataa ttaacctaat gtttgagttg gagtttttaa cactacaaca 180  
 ttgtattaat aatgttaaag aaaaataagt acttcatggg atacaagttt cacaagatgt 240  
 gtcgaccatg caatgaatgt gtcaagggct tgcctgacat actaaatctt tgacgtcaaa 300  
 aaagggactt aagtgtcacc attgtaaact tttgcaatac tcaccttcac cacatcatca 360  
 ccataaggca cgttgtgtat ggtggatacc 390

<210> 20904  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20904

agcttgtatg tgtactngna aagattcaag aaattgtgtg caagctgccc tcaccaccag 60  
 atttctgagc aacttcttct tcaatatttc tatgaggggac ttagcaacat ggagaggagt 120  
 atgattgatg ctgctagtgg cggagctctt ggtgatatga cccctgctga ggctaggaat 180  
 ttgattgaga agatggcttc caactcccaa caattcagtg caagaaatga tgctattatt 240  
 cttagaggag tccatgaggt ggccatggat tcatcttcat ctactgaaaa taaaaagctt 300  
 gaaggaaaac ttgatgcctt ggtcaaccta gtaactcagc ttgccatgaa ttagaaatct 360  
 acacctgttg catgagtctg tggctctatgt ccttcttt 398

<210> 20905  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 20905

agcttgtttt ttaattattt gtatgggttg gatgttgaat tctggttggt cctggtgcgg 60  
 agatgatggg acagcgggtg aaccagaagc ggaagtttct tttggtgagg aagccatgga 120  
 aaaacagagc gtttggaatg atttcataaa tctcagaaaa ctattgggaa atgctggaga 180  
 aaacacgaat gcctagcaga tataaatttg aatgaagaat gtagaggggc gtgtgaagca 240  
 acggtcgaat ttgctttgtg gtgaacgtgc tattaatggt aagtgattcg tttgggcacg 300  
 ttcagattgc agtagctgct ataattcttc tagcaaacia atgccagct tgcccctcag 360  
 tttttcaaac tgatttgcac ccaaagcctt tgtg 394

<210> 20906  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20906

agcttggttt gtgttatgac tccattgatg ctgattatga agttttttga gattgtctgt 60  
 tgggtagagg tcatgataag gactttcatg aactcaactt tcttgagtaa tagagaatct 120  
 ttgtcaatgt ctatgacctt tccaaagtta gaaattatac ttgagaggca ctttgtgttc 180  
 catgtagaga aaatgatatt gtagcatcta atccacgtca atctattact tgtgtgagtt 240  
 gattcttccc atttttgcac tgatttaaag attgaaatga agtttctttt tcatgttcta 300  
 tgcatagact gagaacctat tctcataca agccagatac gagtaccana tctccagcat 360  
 tatatctcat aaaaacctct tggtttcctt ccat 394

<210> 20907  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
  
 <400> 20907

agcttgcttg tggagcttct atggaagctg gatctttgag cttcaatgag gtccttcaat 60  
 ggtgattttt caccatagag atgcagcgga aggcaaagga gaagaggaga ggggaggcac 120  
 catccactat ggaataagcc aaggaagaag gagcttcacc accaagaatt gccttgata 180  
 agaagcttga agaggatgct ttaatggagg aaaagaaaga gagaaggggg gagcacgaaa 240  
 ttcaaggaat aaaagaggga gagaagtgga actttgaagt atgtctcaca agactctcat 300  
 tcatcaaagt tacaacaagt gttacacatg cttctattta tagactaggt agcttccttg 360  
 agaagctttc ttaagataac tttcttgaga agcttc 396

<210> 20908  
 <211> 497  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20908

catactcttc ntctttatac ggtcaaagag ttatctatag tctttacntn nnnccagagg 60  
 gggctgtgcg tcgtactaca ccgtnnatch tgncccgcga tactctaaga gattttcctg 120  
 cagcaggctc tttttgatct attgcgtnag cataagcaca ggataacctg tgagcgtcgg 180  
 attgaatatac aacaccatcg gcgtaggaat gtgatccata cacaaaacca ccccgagagt 240  
 aagccttctt catggggcac ggcaagcaag aacagaaaga cgcccaaaca tcgaaatccc 300  
 gtcctagggg gagaaggggg acagagtacg atctcggacc aaaccatgca tgccaaacga 360  
 caacatgttc aggaaaacaa tagttaaacg atatcgatag ggtgccctag gtgcaccata 420  
 agctaataaa accgaaaggt cgactaacgt cagcaaaagc aagatacacg gcaattctgg 480  
 gtacacatta acgagag 497

<210> 20909  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 20909

agcttttatg tcaggctaag caccactatg cttctgtagt tttcctttga ataaggataa 60  
 gcgtagctgc tgctctaagc ccttgttgtg tggtgaggag gttgagctaa gcgccatgca 120  
 acgctaagct caactctctc attgtatttt aagttactgc agctaagcta agtgcgccct 180  
 gtgcgctaata cctgagtgtc attctgataa cgttgagcta agcgcgccat gctacactaa 240  
 gctccaactc tcttctattt tgaaaattgt ggacctatgc taagctcagc ttgctgcgct 300  
 gagcttaatac tacataaaaa atactctgtg tattcaggct aagtgcgagg ctactgcgct 360  
 tagtcgctaa gttaaacttt ataatgcgc 389

<210> 20910  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<400> 20910

tgttctttat tatgtctgac atattcatag tcggggcgct tattactttt ggagacggga 60  
 ctatgacacc gatggagAAC cagagaacca aagctgctat atggaacaga gcgagtgagt 120  
 ctcggaaggt tgaaatacct actattgtgt taagaacaac tttgacagac gggattgcat 180

tcaagggcat agtatgacat tggcttctct acgtatatgg cgtgcgtgct ataggataac 240  
 agtctgggag aacaatcaga attgaaatga tectacgcgc atggcatttc tgt 293

<210> 20911  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20911

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 ctcacataac cacaaactgc aataatgtgt gaacatggat agtgaagcgc agaatacctt 120  
 ccgcattgac aatgatgacc attcaagtta actgcccact tttgtccgcc acgttgcggtt 180  
 atangggtga agctttcctc tacttcaaac cttgtgaagt ggatatcata cagcgaacg 240  
 atgtgcgtac aagcttggtc ttgatttttc cttagttctt taacaagctt tgaacaatat 300  
 acatgtcctt catttaacta tctttgggct tggcggccac gctcaacaaa gtactttcga 360  
 cacctactgt acgttgattt gaccaatgct 390

<210> 20912  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20912

agctntggga ctaaaaaact atataacagc accaaggttc tagtttagag ggctcttcga 60  
 tctattcggt attagacata gtctctctct ctctctctct cttcttctct ctctattttt 120  
 cgttttttaga tttacgcttt tcttacacac ttttttggtt tgcaattcca gttttgactt 180  
 ttcatttttag cagtacaatc tcgctcttca atctataatt tccttctcta ttgattaatg 240  
 gaaggctaga ttttctggtg ttgttccttt tgaggacgaa gcccaactct ctttgagggtt 300  
 tcgcttgcaa tgtggtttcc tggcagtttt cccttcacca gttatcccaa tttcgtgaat 360  
 attaatacgt gcacgcttcg cgttcgatta a 391

<210> 20913  
 <211> 588

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20913

ctacgtttct agccaccnca acatcatctg cgtcttctgc acgcaactat ggcgatacac 60  
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 gtcnagtgtc gctccgcccg ccgccgatct ctctattaga ctaccatgga cgctaggcat 180  
 ttcttttatt ctgggacgtc tcgctgagg cagcgtcag ctatatcacg acgctacata 240  
 acccgaaagg agaacagctc ctgcctccc gctaacctgc aagaaccttt agacggcggt 300  
 tctcgcgagg aggaacaccg cactcgtatg gcgcacgct cgcactgaga acaacagaac 360  
 gctctccagc tagagtccac cgcacaacaa actgattacg tcggagggac gaggaacaag 420  
 atataataga tcccgacccc acgacatcgt atagcgaagc cctccactac tgctcactaa 480  
 aattactgtc actcaaaggy cagaccatcc ccaccaattg aaggagggcc acaattggta 540  
 tcgaccacta cgcaagagaa tccaccctta ccttactatg tatcgagg 588

<210> 20914  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <400> 20914

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 ggtaatagta tatgtccaac tattgtatctt agcttaacat tgaatgatgg atattgcatt 180  
 tagtaaatat tgtatgacta ttgtttcttt cttcttagta ttgtaatctt tcttagaaga 240  
 taaacagata gtgtttctaa aaacaattgt ttgataaatc attctcacgc gttatgaaca 300  
 tacttgggta gatatagtc tctgttttat tcttttcaga acctagtagc tctcacaact 360  
 aacataaaac ttcttcgact agcaaatagt gg 392

<210> 20915  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 20915

agcttatcac cacaagttat ttctgctaag catgtcttaa atagtaaagc attgtaacaa 60  
atcttgattt tacacacaca cacaacata tagtggaat acaagaaatt ataaacttta 120  
atatagaagt actagacatt gccaatctga agtgaggag aagaaaataa gtactgttga 180  
agatacacia gtacatacta tcttgcaactg aaaactgggt ctgtgtcagg tgatgggtgt 240  
gtccttcgag tgtatttgag tagcaaccct tctgaagaaa gacctgggtac cttcagatct 300  
ctgaaacatc tcataagggg ttaattcaaa tgtaaaaaag atgatacgtt tgaaggtaaa 360  
aataattatg agatgttcac ctgatat 387

<210> 20916

<211> 396

<212> DNA

<213> Glycine max

<400> 20916

agcttggtgt tttcttcaac tcatgcattc tactagattt tggcatagca ataaccaatt 60  
tatttgaaat ttgatattca tgaacattgt atttctcaca agtcaatggt tagattgatg 120  
aagatcacat aaaatatgtt actcaattgt caaagtgtat aaattattta taatgtcgct 180  
catgttttac taacatgggc attagtttgg aattaattag ttgctatgaa ataaaaaatt 240  
gggacttcat ggccataagt ttcacctagt agtggttcagt aataatgtaa tgttttaatt 300  
taacttctat caatggataa tctacagttt aggttgcct caattaataa atttattggt 360  
tccttctctg gttgattctg ctaaaaaata agaata 396

<210> 20917

<211> 397

<212> DNA

<213> Glycine max

<400> 20917

agcttggttac ataaataatt atgtcactgt ccaatctttc aagcatgcgt catataatct 60  
aaacagacag tatttcattg ctaaactcat gaaaaatgaa ttagaaagggt cacttacaga 120  
gctaatactg ggttgtcttt ttgcagcaga gatttctgga gaattcaaaa gcagaggatt 180  
tgtagcagag tatgggttcag tcatagcaaa cattagatta tacaggtaag aatctcaatt 240

ctcaatcttg aactaaacaa gtaaaatagc acattgtgca cacattaaca tagaaaggcc 300  
 ctgtgttatg aaccataaaa ggcagcatcg gtctttatga ataagcttcc caaatttaag 360  
 gataacaaaa ctgcaacttc ttcaatgtat gtgcgctc 397

<210> 20918  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 20918

agcttgctct cttacaaaac ttgtttggaa cagcaagggg atggcccaac aatagtcccg 60  
 tttaactttg ctctgtggaga agaaaacaca caacgcttcc ctcgatatct tgatgattgg 120  
 gaaacattca tgaagttact attcagtgtc gctaaggcgg gcttgcttga tgaatatgac 180  
 ttgctcccaa tgagtgaacg acctttggga gcagcctcct gccatccttc atctgagctg 240  
 tcatgctgtg ccaggttatt actttcattg agccttggtt gagctaagag agtggactca 300  
 actattatca atcccgtgga ctatgagttg agctccagat ctattttctg tatcactagt 360  
 aggctctgtt atttaataac cgtgacacat g 391

<210> 20919  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 20919

agcttgatct ataggtaaga gacaatcatt agggacccat tctcttccac cgattcacct 60  
 tcattcctta tcccttcacc ttttacatcc tttgtacat ttgagccctt cgtgaccatg 120  
 aagggctaaa caaccattg ttggagagct ttccacaaa ctctcttgat gtaaagactc 180  
 ttactatcca tttaacatta ttgctagttt cattgttccct tctgtgtttt atttccatgt 240  
 acttggtttg atcatccatt taaatgctat gttaaggttt aagcattggg aaatgtagtt 300  
 aaccttagaa cttggaagag catctaaaat gcttcattgc tagggataat atgacgtagc 360  
 ttatgtgaat tatacgtctc tattaatcat gca 393

<210> 20920  
 <211> 308  
 <212> DNA

<213> Glycine max

<400> 20920

agcttgtttt tatggatagt tggatgaga ttaagatgtt ttggcttttt acatgcctaa 60  
cttcttttga gtggcatttg tattgggtgc taacttgatt gttgcgtctt tagtacattt 120  
catattgggt tttcatgtgc atcgatcatag tgtgtgtgaa ggaaatctcc taagtttagga 180  
atTTTTTTta tgaggcaaaa actctctatt ttaatcgatt acagagtaat cgtaattgat 240  
tacgacaagc tctgaagctt gaagatgtaa agtctcgtat ccgatttatg aatgtatgaa 300  
tacatgaa 308

<210> 20921

<211> 382

<212> DNA

<213> Glycine max

<400> 20921

agcttttacc catgacttcc tatggtggtg agcttggtct tgactcatct tctccttgaa 60  
gtggcgtctc caatcacctt tctccttct ccattccgct accattgac ttcaagaagc 120  
aaaggactcc attgatgagg aagatccaag gcctacaagc tctacattga gctacatcat 180  
gtggtattag agcatcttca tctaagcgat gttcttttgc ttcctctatc tttttgttcg 240  
gtcaattgac ttttaattcct tgttcttcat catcttctcc atgtatctgc tccattgtct 300  
tatggtttgg ctatttttag agtagattca aaaaaataaa ccgattaaat cttagataag 360  
cactcgttct tgcatttcta tg 382

<210> 20922

<211> 384

<212> DNA

<213> Glycine max

<400> 20922

agcttggtct cttatgtgct tgtactcaga attaataaaa aaacacagtg acttactaac 60  
acacctaata ttacaggact agaaacaaat tagactaata caaatgctaa aatttcaagt 120  
ttagatacca gactcaatga tgctaagtaa atacagaaaa tgattacaac ataagatgtg 180  
ttaaataagt aaaatactac taatgacaaa ataataataa tagacgggga aagaaaaacc 240



atatacgtaa aagacagagg ttaaggtggg gctgagctga aagaagaaaa agcatggaac 300  
 tgaccagagt ttagggttca caattcagca ttagttagca tactatctac taacaataag 360  
 tatcatcatc atcatattaa actg 384

<210> 20923  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 20923

agcttgtgga ctataccttc gaccaaacac tgccgtgttt ctgtctcgac ccagatttaa 60  
 tgcgggctgt agcaccggct ccgctttcct aactgtactg gaggtgggtg tcgtggcttt 120  
 atcctctata gttttctgga gtttttagcat gacctccgag atggaagcca tttgatcttt 180  
 taaagccgat agatcggcct tcattctgtc ctgcacgccc tcttcattat ccatttttct 240  
 ggatcgagtg ttataggggt gcctatgtgc tttcttagtt atgatgaaat tcctaaagaa 300  
 ataaacaacg gtgagtatgc caccaaaaaca tgaatatgca aatgaatgat cggagcactt 360  
 ggatccaccc ccagggttttt 380

<210> 20924  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 20924

agctttatta tcacagcaac acagaatcta ggtgtccaac acccctcaat tcaatgggtt 60  
 ttctaggttt gaaaagtga atcgagaatg aggtaaattt gaagcatact ctcacctcac 120  
 accagtccat aacatcaatc taaacttgct caaactggat ttacgcttaa aatctcaccg 180  
 aatcaaaaatt tgactcttcc acacccaaat ttgccctata aatggctctt tgttcacttt 240  
 ggatcattgt ttttctctct agcacagcct aatctttctc ataagtccta aatgacattt 300  
 caagctaaga ttaactcact ctaacctcca tttaccacag aatccagaat taaccttcca 360  
 actctcaaag cctcactctt tttccactca taacat 396

<210> 20925  
 <211> 280  
 <212> DNA

<213> Glycine max

<400> 20925

gcttgagtcg aaaaccgcag gcgtgacctt ggctcattac ctgtcatggg attttttaag 60  
gctccgctcg gcttacatga aagtctggct aggcccacga tcctatttga aagcttgctt 120  
aaagacgtct ctgataaatc aattatttta aatcctaag aaatacttac taaaaaaga 180  
aacttatgaa atcccttatt agtaatgcac aaattctaaa ataattgata aacaaaatga 240  
ttatgaattc tactcgtaaa gcacacagta tattaataaaa 280

<210> 20926

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20926

tagctttatg ttagcgaatg aaaggaaaca tgaataaacc atacatgctc aaataacata 60  
tgaagataaa caggtacacc tatatgggtca cccaatataa ataaataagt gtcatgtgcc 120  
ataaagagta gcaaaatata atgtgtccta atgaaactag ggagtaacat atatagtccc 180  
aactaaagta aagtagtaat gactaattaa gtacaaaagg tctgagccta agtctaccca 240  
tcccaaaaata ctcgtaaggg caaaaaccta agacttagag tagtcacctc tacctaagtc 300  
caaagtcagg tgactgcaac tcagaaggga taacaacctc tggcataggc acaacaaagc 360  
ggtaatacga cagtgtangc taggtctacc aaatg 395

<210> 20927

<211> 390

<212> DNA

<213> Glycine max

<400> 20927

atctttatcg gatgacgccg atcgaacatt tcctaaccga cgcatgcaa atttcgttca 60  
gggattgaat tgagaactcg ttaggcgaca tctgtcgtga agtagcgacc gatatttttc 120  
agccgacatt gcacaattct ttttagaaaa gctcgctggt cgataatggt ctttttacgg 180  
cagagtaagt tttcttgttt tgggtgttga taaaaaagtt acaatgtact tcggctaggt 240  
tttctgtgcy agttcaaccg acattttgtt tcggccagga aaacattagc ccacctctgc 300

aaaaaaaata ttgctaacc gtcttcatgc atatttcatt caacgattga atagaaaact 360  
caatagccga caacggtcgt gaaatagtcc 390

<210> 20928  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20928

agcttcttat tcattgctca tcttagtggt gaagctcatt cttccatggc ttattcccta 60  
gtggatggcg cctcctctca cctcttctcc ttgtcttcc gctgcatttc catggtggaa 120  
aatcaccatt aaaggacctc attgaagctc aaagatctag cctccataga agccccacaa 180  
gcaagtttct atcaagtggg aatcagagca caagagcttc aagtaagtgc tccttaaacc 240  
tccattaatt ttttttcttt accctctctt ccattgttgn ttcttcattt ttctccatgt 300  
atctctcac atgtcttggt ctaaagtgtg ttaacatgat tctttagagt ttccaccgat 360  
taaacttgct atagaaacta gattngattt tctat 395

<210> 20929  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 20929

agcttctccg gatgacgccg atcgaacatt tcctaaccga cgtcattgcaa atttcgttca 60  
gggattgaat tgagaactcg ttaagcgaca tctgtcgtga agtagcgacc gatatttttc 120  
agccgacatt gcacaattct ttttagaaaa gctcgtcgtg cgataatggg ctttttacgg 180  
cagagtaagt tttcttggtt tgggtgttgca taaaaagtt acaatgtact tcggctaggt 240  
ttttcgtgcg agttcaaccg acattttggt tcggccagga aaacattagc ccacctctgc 300  
aaaaaaaata ttgctaacc gtcttcatgc atatttcatt caacgattga atagaaaact 360  
caatagccga caacggtcgt gaaatagtcc cgactgat 398

<210> 20930  
<211> 390  
<212> DNA

<213> Glycine max

<400> 20930

agcttggttat ctatcacatt atatagcgga tacgtactgc taaaagcctg catatatggt 60  
tttttaatgc attccaactt gcattgcaac catttgaggg accctttcat caaagatatg 120  
aaattattga cactcaaggg gtcggcatct ccactccat gtaccttgat ttaacttaaa 180  
actcaaggat caccacaatt ttattgtagc agctgaaatc catagcatga ttttttttct 240  
tagtgatgct gcaacccttt actatatgaa cccatataat ataagtatca tttttttttc 300  
agtaacagtg acttgatgt cattatgatt gagtggctat aatatatggg aaatcatcta 360  
aatgaacttg aggcacgaaa tgatgaacat 390

<210> 20931

<211> 392

<212> DNA

<213> Glycine max

<400> 20931

agcttcttct caatggactt accttgaatt aattcctttg atagcccttt tgagccttgt 60  
ttccctttcc ttgttttgaa gtcactaca agccttaagt gaaaaaccat gatattacca 120  
tacccttaag gaattttgga tctttggaat tgttttggga ataagtgtgg tgggtttttg 180  
tttcattgga caacttgttt tgttggctat gcttcatgat gtattttggg ccatacttga 240  
tgtacattgt atattggta aatgttggac atgtgaatg aaatgttgtt tctcaaaggc 300  
caaagagtaa aaaaaaaaaa atatcgaaaa aagaaaaaga aaagcaataa agttgagtga 360  
ataagatctt aaatggcaca agaatgatga aa 392

<210> 20932

<211> 375

<212> DNA

<213> Glycine max

<400> 20932

agcttctctc ggattattcc gatcgaacat ttcttaaccg acgtcatgca catttcgttc 60  
agggatcgaa ttgaaaactc gttacgcgac atctgtcgtg aagtagcgac cgatattttt 120  
cagccgacat tgtacaattc tttgtagaaa agctcgtggtg tcgataatgg tcttttttacg 180

gccgagtaag ttgtcttgtt ttgggtgttg ataaaaaagt tacaatgtac ttcggttagg 240  
 tttttcgtgc gagttcaacc gacattttgt ttcggccagg aaaacattat cccacctctg 300  
 caaaaaaat attagctaac cgtcttcatg catatgtcat ttaacgatcg tatagataac 360  
 tcagtagccg actac 375

<210> 20933  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 20933

atcttattta ttctgcttta gggctttatg atgatgcttg cgatgtttgt gtgctgaaat 60  
 tgctgatgga aaactgatat agatgaatgg tagagctaac ctaaggctaa caagtgagaa 120  
 tgtagtata tgagtggaaa aatgtgacgc tctgagggtt tgaaaggcta tatctggatt 180  
 tagtggtaat tggagattaa agtgagttaa tcctagtctg aaatgtcctt taagacttat 240  
 gggaaagctt gcgctgagca tatgatgaaa atgagtgacc aatgtgaaag caagagccat 300  
 ttctaagtgt aattgcgtgt tgatgggtca aatattgatt cagtggagtt ttagtcgtat 360  
 aa 362 .

<210> 20934  
 <211> 517  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20934

cgcacgtcnn nttaagatgt gttcaatcca cgcgccgaga gctagctccg cgcggatcgc 60  
 tctctatgac agtcctagca ctgcactgca tagcatttct tgtgttgat tccattcaat 120  
 acatatagct agtcggcgg catgcccatt acgctcacga atagtatcgc caaccggct 180  
 tgagacacac agtcatgtta gaggaaccga tcttgtcttg agatgagaca tggctcactt 240  
 ctactttctt atcaacgagc cgtatcccgt ccgcttactg gacggttgta cgggccagca 300  
 agccatattg ttttgctgct gtacaacaac gacaccatgt acttcggcta cgtcagtcgc 360  
 gccagagaca acagagcttt tgatgctgcc tcataaactt tcgtacaaca gttgagagaa 420  
 gaatatgacc ataactcgat atgctgtgta ttacacgaga cagaatgctt atatacacag 480

acttgcctat aacagggcggg agatgactac gaatggg

517

<210> 20935  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 20935

ctgcagtttt tatgaggaag tgttgaaggg tgaaactttc tgctttttatt gttgaccaca 60  
gagtgggtacc tggagatatg tcgcgggggt caggagacct tggggacgtc aggtgggggtg 120  
ctattgcccc aaaccaagct tgaccaatcc cgaccaacc cgggcatagt cggtcagtga 180  
gaacctgtga tgtacctaaag caggcgagct ccttgcagtc aaccgataaa aggataacat 240  
agaccacata gcaaggaggc ttgtgggtggc tgaccagctg tgaatttgtg tgatatgtgg 300  
agtatagtct ctggtaatcg attaccaagg gtgggtaata gattacaagg cttataaatg 360  
aagacaggag gctaagatgg tctctggtaa tcgat 395

<210> 20936  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 20936

tgcttattgt ttatggaaaa agtatagaca tccaattgcc tcgaccaatt tataagattt 60  
gcggagaaca tgcaaaatat ttcacgtctg acgctcatat gcgtatccgc tttacaagat 120  
aatggttggg ttgaaattag taaagattat gtaaacgaaa cgcgacagca tgtgaaggat 180  
catatataat taagtcaatt atattcaatt tattcatata tgagaagatg agtgatatct 240  
tcgaattaga tcgataagcg tattgtggca gtatctaatt cccgcttttt ctgatgaaga 300  
catgtaatat aaggatgctt ttagttttatt agatgagacg aatgaatttg ctgtgacgca 360  
aattcaatct 370

<210> 20937  
<211> 540  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 20937

ctcacacgtc ccctaccatc totgcacact tacagccaca tgcatacggc attgcgaacn 60  
cnaagggggg tgggtgtgact cttcaccacg ngaaangaga tgcgggccgc cgaggactca 120  
nagtagacca tgcacgcatg catttttgtg tctgcgacaa gaatacttct gcgagggcag 180  
ccgctgacga ccaccgacgg aggataagag ctctcatag aagaactcgg gactcactac 240  
gtaccaagtc gcacgaacgg gcgagaatgc tgcgcgccgg gtgtcagcga cgaccgagag 300  
accgctgacg caagaaagag accgatcgca agacaacact atatctttcg actaaggtag 360  
gaccggctcc atcgcaactt ctatagaacc gcggcggtca ccgacattcg tgatgtgtgc 420  
gctgataacc gcccgggccac ggacactaat ggaacctgac cctgtgggtg tataacaccc 480  
acacaaaatg cgcaaccgca caccacatc ttccacagcg tcgcatgcac acagtccacg 540

<210> 20938

<211> 384

<212> DNA

<213> Glycine max

<400> 20938

tttcttgtat tgattcagtc taagtgggga ttgaggttta gtaatttagg ctacaacata 60  
gaacacaaaa gcatgattaa ttagagaaac atctttatat acatcaactg gtttgtaga 120  
aagaccaaac atctttacct actgttgtca atcttactta cttgcatttt tactgttttt 180  
agcctagact tagttttatt ttgttctaaa tcatcaaatt atcaatgttt ctttcaacaa 240  
tgccttattt ctgaatttaa ccatgtctaa gactagtcc ctgagttcga tactcagatt 300  
catccgtttt aattttaaat acttgacgat ccggtgtgct ttctgataaa ccggatttcc 360  
cttgaacata tttgtataaa gaaa 384

<210> 20939

<211> 390

<212> DNA

<213> Glycine max

<400> 20939

tagctttata tggtaaataa aaagcatgaa atcagaaagg taaatttttg gctgtaactt 60  
atgaattatt tttagtattt actttatacc tgaatgaatt ccaaattgtc atataatttt 120

tttttaggatt cattttttca atttattgga aacatctcac atgtgtttga cagggatcaa 180  
 agaactttta aaatctttac ttgattttgt tctagacgga tttgttgatt gcttcttatg 240  
 tgtttgatca aatgccaaaa agaactttga aatttccctt tgcaagcttt accgattgat 300  
 ttctttgggc tatttttaat ttactgacta aaaaaatata aatttagtgg gtcagtagta 360  
 ctaactgaac atgcaatgaa acatgcacac 390

<210> 20940  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20940

agctttcttt ctggaactat caaacaacca taaaaaacct acagaatcat ggatgaatct 60  
 ttcataattta agtaacaata ttaggaaata tacaatatat ataaacaact agatttaagg 120  
 gtaatttaga agaaaactat tacaatcaaa ggataataag tgctaacaat ttaatcccaa 180  
 aaataactta aatttggcac ttatcaactc cccccaacct agaatecttc ttgtcctcaa 240  
 gcaaagtaaa taaaaatagt ataagtatgc ttctaaaatt atgaacatgc tttgaaaaga 300  
 atcaatcccc aaactgatta ngacgacatt ttctanaatg gaacaatgag aaatgaaagc 360  
 acaaagatgg aattcacata accaaaaaat gagattaa 398

<210> 20941  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 20941

agcttcttgg tgccctcccg tttttatttt ctctccatct ctcttttttc aactgtagc 60  
 agacatgttc atatgtctgt tgggtttgaa atgacagcac tgtccatcat tgagctctga 120  
 tataatcatg aaataccaag gaataactac ctttcatttt catgtgttcg tcaattacct 180  
 gatggatggt agtatagtca tgaccttatg tggtagacgt atgactacca aaaatactga 240  
 gaaatagaga tagagatatc tcaagatatg tatggcattg ctttgacca cttgtcatat 300  
 ctttatatca tatatatacc ttgggcttaa gcataaattc agcttgcttt tgtatgtacg 360  
 ttaaaggaac ctgagagagt aacacttata tatat 395



<210> 20942  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 20942

agcttgatat tcattaatag aattatattt gactatattt caagtacaca tttaacattg 60  
 ttttctctaa aataaaactt aatgggcttc tagagcagaa gagagtttt caacttcaac 120  
 caaataaata aacttcatag cattgatctt tgtttgcggt aactctaatt acaaaacata 180  
 cacatatata attaattttc aattaagaga aatcaaatta cctcttcaaa caatgtgaca 240  
 tataagatgt aacacaccac ataaaaaat catgaaagga agagatatat ttatttccaa 300  
 ccacacatat caaatattca tttaatgaat gtgaaattac aaaactaccc ctaatacaga 360  
 tactagtcta tagtgcgcta atatacaagg gctg 394

<210> 20943  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 20943

agctttcttt tgccatttcc tgccaaggca aacatttgga aagttagttt taccaagaaa 60  
 tgctactctt aaaacaaaaa tggcatacaa cctcctccaa taaacacaaa catcaatgta 120  
 aatttagagc aaactcatgc acatacttct ttacgaacat tcactcgcac aagatattct 180  
 tctaactaag aaaaatgcac aatcaaggca ccttcgttac ctagattatt tatatgtact 240  
 tccaagggtg atttgcatac tacatcacat gcacttcctt tgctaaattt acatacatgc 300  
 atactcaaag cattttggct accaaaattt gcacacgtgc acattctggt atttccaata 360  
 cctatacata tacaactgt gtgatgaatc tt 392

<210> 20944  
 <211> 566  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20944

caccaaccac nacctcctac catagacgaa cgcacacaat cacatagtgn ntccggcctn 60  
 nananttana nnctaagagg agnntttgat gacgtcgata acgacacggc gaatncaaac 120  
 tcggaacccc gcgagcctcc acagtacgcc cgctggcatg ccagctagtt tggttaaaga 180  
 gcaacgaacg tcacgcgcgc atgcaacaaa agcgagacgc ggctatacca gacaaccgcg 240  
 caaaciaaagg ccaggttaca gagaaactcg gccagtgcaa tattcaatgc aagcgatatg 300  
 tgaacaaaga gaaagataca caaacgctag aagaaacgga aaaagaagcc aaaaaaacac 360  
 cgggcccagg ggaaacgaaa cactcccctg cgttaccaga cataacgagc acacagaagc 420  
 gcacacggcc agagaaaaac aaaagcgcgg gacagagcat cgacacgcga tgcgacccag 480  
 aagcagcgaa aaatcaagac acaccgagcg agatacacac taatccagag cgtgccacga 540  
 ggacaacacg tagcgagata acaccg 566

<210> 20945  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 20945

tgcctgcatg catgctagtt ttctctatct gccagaccac ctttgacaac ctacagactc 60  
 gtggatgaga cttttctatt ttcataacgg tattaagaga tctactgtat ctatgatcat 120  
 cgtggtatat tggcctttga taagatatct attacctact taagatccag ttgctggcat 180  
 ttagccctcg aagtaactca gatttggcac taatcaactg tccccaacct agaattcttg 240  
 ttgtcctcga gcttagagca ttaaatactt tcagtgtgcc tctgaaacta tgaacatgca 300  
 ttgtaccgaa tctcctcc tactgattat gacgacattg ttgaaatgga cacagtgata 360  
 aatgatgtct catagatgga atgcacat 388

<210> 20946  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 20946

agcttgtggt tgaggtactt acccgttgaa gatcgaagaa cgatgaagaa cgaatgaaga 60  
 acgtcgaaga acggtcgaaa ccttcgcaaa attcctcacg gaaacgttac ggaagcaaca 120

gccttctgga ggaatcttct ggagggccca agtgggectg attgctattt gcacccccat 180  
 ttttactaag tacaccccct gccttatttt ggtgattctt ttttcgtaaa gttacggaaa 240  
 cttacgaatt ttgtaaccat acttgttttc tttccgtaat gttacggaa cttgtggatt 300  
 acataatcat cccctttttg acttacggaa tgttacggaa cctcactaat tgtgcaacga 360  
 tgccctccatt tgatttccgg tgtgacacgg aa 392

<210> 20947  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
 <400> 20947

tgcttttgagg ggtgattcag accttgcttg ggagtgcctg cctgctatga atgctgctgg 60  
 ggggtctgcta tgcgtttgga ataattgtaa ttttcaggtt gatcttagag tgtctgaaaa 120  
 ggggtttcatt atgctgggag ggggtttggat tcccgacatg caaaggatag tcgtgggtcaa 180  
 tatgtatgct ccctgtgata ttgtgggtaa aaggcaacta tggcaggatt tgatcagtat 240  
 gaagttgcaa tccaagacc cgtgctggtg tctagatggg gattttaatt gcacacgca 300  
 cccctctgat agaatgggga gctatcgtgg aaattcaccg ctttctatta tatctgaatt 360  
 taatgactgg ctcg 374

<210> 20948  
 <211> 340  
 <212> DNA  
 <213> Glycine max  
 <400> 20948

tgcttttttc tacacggact tacctagaat caattgcttg gacagcacca tttagcctct 60  
 gttcccttta ctgcgcccga tactcactac gcgccttaat tgactaaaca agatacctgc 120  
 acatcctaag ggaattcggg acgctcatga cacgcattgg cattgatagt ggtgcggact 180  
 tgcttactcc atggaatatg tggtagcgat gactgtactt gatcacgtat tgggagctct 240  
 acatgatata caaactttat gacgaatatt gactatctac tcgatagaca ggtacattct 300  
 ctgctgttat caagtcattg ctacctatcg ccgcatgcaa 340

<210> 20949

<211> 517  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20949

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 nncagagggg gttgtgcgca cgtcaaccgg gagaaatttc gctccccgga accctatgag 120  
 tccgccgcga gcctcctact ttttggtgtaag atgtagatcg tcgaccgaac attaataaat 180  
 acacacgccc cgcagcggga gattcactac aaccacaagc cagtggctac gaagggctgc 240  
 atcaattaga gagaaccccg cttaatccac gtgcaaagcc agcaaaacag tgttccgcaa 300  
 agcgatgaaa aaataaggtc caggtgcta ttagcagtaa gataaccact aagagcgcaa 360  
 aggcgtaaaa cagatactcc ctaccgaagc aagaaaaaag aaaaacactt atcacagtct 420  
 gtctcgggtcc ctaatgcctg cgactaagag aacagaaacg cgagcccgcc gcctaaaact 480  
 agagcctacc agcaccgcac cagaaaccac acgaccg 517

<210> 20950  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<400> 20950

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 agtggtacct ggagatatgt cgcgggggtc atgagacctt ggggacgtca ggtgggggtgc 120  
 tattgccccaa aaccaagctt gaccaatccc gacccaaccc gggcatagtc ggtcagttag 180  
 aacctgtgat gtacctaaagc aggcgagctc cttgcagtca acagataata ggaaaacatg 240  
 accacaaagc aaggaggctt gtgggtggctg gccagctgtg aaacttgatt gatatgtgag 300  
 atatggtctc tggtaatcga ttaccaaagg tgggtaatcg atta 344

<210> 20951  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 20951

atcttatgcg catatttctt tacgaacgtt cgcttgcaaca agacattctt tcaactaaga 60

aaaaaaatgc acccatatac aatcaaggca gtttcattac ctagattatt tacatgtact 120  
 tccaaggtgt atttggtact tacatcacac acatctcctt ggctaaattt acatacatgc 180  
 atactcaaag cattttgggg taccaaaaat tgcacatgtg cacatcttgg tatttctaatt 240  
 acctatacaa acttcatgat gaatattgac tatctacaca ataaagtgtc acatttcatg 300  
 ctcttttcaa gtttttgcta cctaaagccg catgcaaatt caagtatatt ttcctttgct 360  
 gactaaaatt gtattaaaag gtatatattc 390

<210> 20952  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20952

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 tctaattgca tttcccatgc tgattgacag aggtcgacac tcaataagaa atgatacata 120  
 actaccaatt tttgctgtca agtctctcac aagagtcttc tcaggtggaa cttgttagtc 180  
 tttgatggcc tcttgaaatg cttgaagcat tgcaatgcaa cgagcattgc caccagatat 240  
 atctccagtt agatactgca agcccacctg aaacaccata aaacaagatc attaagattt 300  
 gggaaaaaat atttcaaaag gtctaggtca caaaacatat tgacctgacc caggtcctaa 360  
 tcactgatat tcattaaaac accataaatt ttaatt 396

<210> 20953  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 20953

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 catcatatct ccccaaacc ccatccacg aaaattaaag gagaaagaag tccacccaaa 120  
 cctgaatttt cgaagtccca ctgtagcca cgcacttcac ggccccgaaa atgcctcct 180  
 ttcgcgattt ggggcagaaa tgatggccaa aggttgaagc tttgcttgga gcttcaatgg 240  
 agaatgaaga aggagaaaat ggcaacgtga gggagagaga gagctgtctg aaaagtgtgg 300

gggctgagtg aagagagaga atagcttttt ttggttttta ataaaagggt attctctttt 360  
tctattatta tatttgagca atgccacatg tctccattt 399

<210> 20954  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 20954

agcttgtaat ctattacaca catactgtaa tagattacca taagacatta tcagaaaata 60  
tcttcaattg tcacatcttt tcatttggat cttgaatggc tatcaaaggc ctatatatat 120  
gtgacttgag acacgaattt gctaagagtt tttcacaaca aaaagggtctt atcctcttaa 180  
aaagacaaat cgttttatcc tcttacaaat tcttggcca caacacttgt gattcaataa 240  
ggaattatct gagtgtctaa attgatcaat ctatcttttt cacgagagat atcgtcttat 300  
cttcttctct attctgaaaa gggattaaga gaccgacggt ttcttgttgt gaaataattc 360  
taaccacaat agaagaattg tcctt 385

<210> 20955  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 20955

agcttgttct taactgggaa ggtcccttta gggtcacaac caaccttgac aatggagcat 60  
accgactaca agagctagat ggcaaagcaa tcccacgaac gtggaatgcc acccacctga 120  
agttctactt cagttgacct acactctaaa cctaattgtg tactcttttc cctatgcaag 180  
ttttttgtcc ccaaaatata aaatccaggg ttttggcttg gagggttttt aatgaggcac 240  
atttgggcaa cgaagggaat ttgtactcag ttacatacat tgaataaaaa tctacatccc 300  
ttccttttcg catttctctt atcaagacaa gagcatccat agttgtacct ccaaggctct 360  
taaaacccaa ggtccatcct tggtagcccc ttttt 395

<210> 20956  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 20956

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agaggatggt gcctcccctc tcctcttctc ctttgccctc cactgcatct ccatgggtgga 120  
aaatcaccat tgaaggacct cattgaagct taaagatcca gcctccatag aagctccaca 180  
agcaaacttc catcaagtgg taatcagagg aaaaagcaca acctatcctt aaacctccat 240  
taatctttgc tttcccttct ctccattat tgtgtcttca tttttctttg ttgcaacct 300  
cccttttgca agcgagcgag gcgaggctca cgcgtagcgc ttccaaatga ggaaaatgca 360  
cggagtcccc accaacgtct atttgtggaa a 391

<210> 20957

<211> 387

<212> DNA

<213> Glycine max

<400> 20957

atcttttcca gatagaatgt caaagatgga cgatacttta acacaattta tgcaagtatc 60  
cagcacaaac cagaagaaga ctgatgcac tattaaaaat ctagaagttc aagtatgaca 120  
actggcaaaa taactatccg aacaaggaag tggatctttc tcagcaacca cacaggtcaa 180  
cttaaaggaa cattgtaatt taattacaac aagggtgggg actatggttg gtttgaagga 240  
taatgatgaa aaaagaataa aaaaagagtt gaaaaagaaa acgagaaaaa tgatgaagtg 300  
atgactagtg aaaaagtgga agacaaagtg gtaagtgaag aagagaagaa gatatcaaat 360  
gaacaaacca gtaataaagg taaagct 387

<210> 20958

<211> 370

<212> DNA

<213> Glycine max

<400> 20958

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tatatcgaga cgctcgaaat tgaatgttga agctctgaac caatataaac gacaatgacc 120  
tttactcgg atgtatgatt gagtcccgta acatctcgag acactcgaaa ttgaatgttg 180  
aacctctgag catattcata cgacaataaa ttcttactca tatgtctgat tgagtcctcg 240

aacttatcga gacgctcgat attgaacggt gaagctctga gccaatatac acgaccataa 300  
 ctttttactc ggatgcctga ttgatgctcg taatatatcg agacgctcga aattgaatgt 360  
 tgaacctctg 370

<210> 20959  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 20959

ttgttttctg tatgctagct atcatgattt catttgtatt cctcataatg tattctttga 60  
 tatccttaat aaaatgacat gaatttggtt ccttataaaa atatctatag cgccatgtaa 120  
 ctaatatgaa agtcacaaga ggtgaagaat agtaaagaga aggttaaaaa gtggttggtg 180  
 aaactgaggt ttttcattta cttttctaata ggccaaagat gcgatgtaaa agttgtgatt 240  
 gttcgctttc gatccaacct cctggttgca ccataatttg tgaacataat gataacaatg 300  
 cccaacaaaa agaatacgtg cgtgcgtgag ctggagaaac aattgaaaca acttatccca 360  
 caccaaacca aacgtgtttg ccatttgatc ac 392

<210> 20960  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<400> 20960

tgtttttcct tttggtcctc ctcataggtg cggcagcaga aatcatgctc tattcatcat 60  
 ctcccactcc aagtaggcct ccggatcatt ccttccttta aatggaggaa ccgtgagttg 120  
 aataccatca atcctgctat tgactaagaa caccgtcatt ccctcttctc cttctttctt 180  
 cttcattacg acctctattc tccatttgat ccaacctctc atggagcgca tcatgtagat 240  
 gaggcattaa cctctacaca tgtagcatca aagctcgcat gtggaattgc gatagcccca 300  
 ctccatcatt aggattatta cctgacatc 329

<210> 20961  
 <211> 540  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 20961

tcgacaaatc cctccccct accaccactn tagntcattc gagcatttcc acaaaccttc 60  
cccacnaaga ggagggttga tgctgtatac atccnagcga cnannacnag nccgccncga 120  
ggcaccaaga aagaccagca gcaagccagc catttagacc catagacaca caaacangca 180  
cgccgacatg gattagcaag tggacggagc tatccaatgc agactgacac caaaaagaac 240  
cacacccacc atcaaacca cgaaaaagac taccgaaagg caagcacagg aaccccaatg 300  
acctatggtg acagaaaggg gaaaagaggg caacccaaat aaatgcgcgg ccaccacgag 360  
gaggagaacc ccaacaacag ccagcaaaaa gaacaacgca tagggaagat cagccccgg 420  
tcgtgggtcg aaacaaaaaa gacacagaat gaacaccctc tgcggaagcg accacgaaat 480  
aacaaggccc acacaagggt gcgagaaggt gagactgccc gccaaactatc aaaagaagcg 540

<210> 20962  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 20962

tagcttggtc acctttttcc tcacatcttc cttcattgat gggttgagcc ttctttgggg 60  
ctgtctgact ggtctgtaat cttcttccat cattatcttg tgcatacagt aagcgtggct 120  
gattcttttg agatctgata tgtgccacct aattgcctcc ctgtatctct taaggacctt 180  
taccaacctg ttttcttttt ctgctgtgag ctactgctg atcaccacag gcttgggtctt 240  
gttcttctcc aagaacacat acttcaggtg gttgggtagg atcttcagct ttaccttggt 300  
cttctctgat ggactccgcg ttttcaattc ttcgaaactg gtccccatta cagtaatatt 360  
gtcttcacaa tctaagtctt ccaagaaag 389

<210> 20963  
<211> 374  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20963

tttnttttta tcccatctac gcatggaaga ctttcatca tattcttttc atgtaccaac 60

ttcaaagctt gagtgtggaa gtgaccaa at cttcgatgcc ataaccatga atcatcaatt 120  
 gttgctctca tggaaacgct agtactagta gtatacttga agcttattgg aaaaatacta 180  
 ttacttttca acattttaac ttgacaatc tctgtgcttt tgctagtgtt atcaaatact 240  
 gcacgtatct cctttgaatg aacagattag tctttctcca tcatttgttt aatgcctaag 300  
 agattgtctt taagatctgg aactaaccat acatctctga tgaatcttgt acctttcttt 360  
 gtctacagca tgat 374

<210> 20964  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 20964

agcttcttat tgtatttgta ccatagtagt ttgtaacttc ttcaatttgc ttgcatgtca 60  
 gttccacact gaattcattc tcacccatat gggtagatag tctacaattt atccctactt 120  
 gcatcattaa atactattta acgttatggt taaatttaac ttgccctatg tggtttgggg 180  
 agtatcactt tggcaccacg tggtttaaac ttgtgcactt tgctcccttc atattttcat 240  
 taacatattt gttatctect tgtgtctttt ttggctgtca actatgaaaa gcttattcat 300  
 gctataatcc attaaaccag cagggtttaca tatccgacat gtctgtctgt tcctaacttt 360  
 tgacaaggag aacatatttc taggaaaata aacaaag 397

<210> 20965  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 20965

agcttgtgct cactgttgct accccacaaa gctccacgga atttgtctcg gccatgctct 60  
 tccttgcgag cctcttggt ttcttgttca agggctcttg cggtagctgc attttcttct 120  
 cgtaactcgg cacactcttt ctggacgtct gtagcgacta acttgaattt ttctttggca 180  
 agtcttgctt ttctagtctc tggtttttaga gctcggactt cttcatcctc ttccggagct 240  
 togaagttcc cctcattgat aactttcaat ttggagagcc aatctaacc ccggtgtacga 300  
 actttcaacc attcatgata accaccgatg atgccattac ggatgccctt aagttcttta 360

<210> 20966  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 20966

agcttggtccc tgtcttgaaa gcttggtttac atgtcctatt ctatataagg gcatataaac 60  
 aaaccaatag gtctaactag gccaatgggt cttgttcac acctaaatta tttgatgttt 120  
 tctaaagact aataatatta aagaaaaaaa agaaaataat tcaaatttac tttttccct 180  
 ataatgtat aattattaat agtcaaacc aagcacaaaa tgtgcaaagg attggtgcat 240  
 aaaacttaat tacaagtagt accacaccaa cacctataaa tataaaacga aatattggtg 300  
 aaaaagataa gaactagcag caaatactta cccccacaca ttatagtcag taaaaacata 360  
 atgtttttat ctcttaaagc acctgccgca acctac 396

<210> 20967  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20967

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 agtccatgca aaaacttcta aattcatttg gtatttggga aagccattca ttgtttttca 120  
 ttctcaatgt ttccaaaaat cactttgttg tgtttcgatc caattcaaaa gcaagtttca 180  
 aaatcactgg ttgctgattc ttccaaaac atgttatgtc caagaaaaat tttctgttta 240  
 agtcccaaaa agagttatat atattctaca actacgctaa cagaacaaaa ttatttagtg 300  
 gtgtgtacta ccaaaaagag ggtgtcagac cctaatttca tccgngaag gtttttatcg 360  
 ttcgacacaa cccgatcaat catatgcaag 390

<210> 20968  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 20968

agcttttata caaatttcta ttttaaaatg caaaatgtca tgatttacga ttacaattct 60  
 tttatcta atattttacc ttttaaaaat ttaacttaaa ttttaacaata cccgtataaa 120  
 gactagtga tggaaaagac aagtacaaga ataactttgt attggttgat tcaactcaact 180  
 cttcagtaaa aattaacttt cgaataccaa tgtttgaaaa cccaaaatca gatcgctcat 240  
 taaacaactt gattatttca atatgcaaca tgattaatct aagacaaaaa ataactcctaa 300  
 tttacaaatt tagtatggaa tcaaccaaga aaaggctatg cacacaattt gtcaagcaga 360  
 gttttcgctc aaggacatag ttcattcaatt 390

<210> 20969  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20969

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 cctgaagcta cctacaatcc taagatcaga gttcataaac tatatagccc acatggctgc 120  
 gtgaacaagt ccaacaagca gatggaaatt ctttcataaa actatactaa agggagacat 180  
 catagcggga gccctacagg gttttatgta tgcccatatt gtgtcatcca atttcaatga 240  
 ccaaactctt ctatatgctc tcacagtttt ttgtaaaacc ttctatagat acctattata 300  
 tacctcaact taaccaattg cttgatgggtg atacaaagta ataacttat gggtaacacc 360  
 atatttagcc acatggctat cagacaa 387

<210> 20970  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<400> 20970

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 accatctcga ttacaccacc gtgtaggacc gccgtcaccg catccgtatg atgcgcctaa 120  
 acatccatgt gaactatcaa ggccggaggc acccgaatat acaatctctt agatataagg 180  
 gaaagcgtcg ctcatgaatt gacctcatcc ctgagatgta accttattca ctagaatcgc 240

cgtatgacta ttaatgtttt ctttttagtc tgtcgtggtg a

281

<210> 20971  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 20971

agcttccatg tccaagtttc ttatgccaga cccaatgatc ttgtttgaca taaagtaagc 60  
aagattttga tttgataact ctcttagtct aatcttataa agatttcctt ttctcttagc 120  
agaataaagt aaagacacat ttttgttctg gatgatacat tcattccttg taaagaaaac 180  
atcatatcca ttgtcacata attgagttat gctcagtaga ttgtgtttga gccatttaaa 240  
aaataagaaa ttatcaatag gaggatatgg atgtatacct atcttaccca ctcttggtat 300  
ttgccctttt ttattcccta tgaaagtgat ggttccacca tgataaggag tcatacattg 360  
gaacatgcac ctttctcctg tcacgtgcc a t 391

<210> 20972  
<211> 536  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20972

cccactcacc cntcgccga ttgcgcgcg acactcaana tcattgacgc ttcaataaca 60  
ntnnnaannc agaggggnntt tgtgctgagt ccctcggaan cccanncaa nntcaccccg 120  
acgcgcctaaa catacagctg cacgcagccc gctgtccgtt ttcacacca accacagaga 180  
cggcgagAAC agacgtcaat caccacgacc aaagcaacca caccacgaag agtcctgcga 240  
accgacagaa gaacgcaccc agaaaacggc gaggcacggc agaaaaaaaa agtgaccagc 300  
cagaggacgc cagacaaaca acacaaaaag ccggcaccga gccgcacacc caaaggggtg 360  
ccatccaaca aggcccggag aagagcccac agggggaagc aagcgacgat acaagcagac 420  
gaagacgaga tgaggacggg gcaggaccag acacaagaac aaccacgca cgtcaaacga 480  
cccagggaca gcccgcag ctcagaacag actgcacaac gagaaccgcc acgccg 536

<210> 20973  
<211> 377

<212> DNA  
 <213> Glycine max  
 <400> 20973

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 ctctctcccc tatttttcgt tttttagtta taagcttttt cttctctttc tcctttatct 120  
 ttcgtttatg caattccagt ttgactattc attttagcaa taaaaattcg ttctctaattg 180  
 attaattggaa agctaagtc ccaacgctgc tttctcttga ggatcaagca cagttctctt 240  
 tgagggtcta ttattattgt taaattctga tcaagttttc cttcttcgta tatactctcg 300  
 atttggtgct attaattcat gcatgcttag tgcttgatta attttctctg cacttaattt 360  
 acgctcatgc ttaatga 377

<210> 20974  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 20974  
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 atcttgattt cccatttgca tcgtaccaa gtcaccgctt tggtaggatg agaagaaact 120  
 tccatgtgga gtaacatgga aggaggcacc ggaatcgaca atccaagagc tatcatcaca 180  
 agcaatgttt atgatattac cttcaccaac gagatataac aaatcttctt ttgaaactac 240  
 ggcagtagta ttcttctttt ctttcttctt tggtgggctg acttggtctg gcttaacggt 300  
 accgattgtg tgatctctct tgaaggattg acattctatc ttctgtggc ccctccttcc 360  
 acagtag 367

<210> 20975  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 20975  
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 aataccatta ttgtttttct tccttaatga tgaggacatg accaacagca atggcaagga 120  
 tccaattgaa tgacttgag gacctatgac aagggttaga tcaaggaaag caaacgaagc 180

tcttcaacaa gtgttgcca tactatttga atacaacccc aagtttcaag gagaaaagtc 240  
 caacgttggtg agttgtatca tgaccacat ggacgatgac taaatggcgc cacttctct 300  
 caattataga gtgttcagtt tgtctaaata atggcccaat ccatgtgaag tcggctgacc 360  
 aaagatatgt cttgggttaa tcaa 384

<210> 20976  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 20976

agcttattct tgttctatat gatcggagcg ttgtcgcgaa agacagaggc cctgactgtg 60  
 ctttctatga gagcatctac cgcgagtgac tgggcttacc actgagtggg gatgtcttat 120  
 cctgtacttc tgggcgcccg acgaggcttt tcattgacct ggtacctcat tacatatagg 180  
 atggaatcat agaattattgg ctgcataacg cccgcgtata gagacatatt gatcgcttga 240  
 gtgactttgt ggctggaacc ttaaagacat ctacgggtgtg aaaatgctgg atacgtcgtg 300  
 ggtcaagact gcatggctcg cgcactggcg ggaatgacat agctatgtcc tgggtactgag 360  
 tacttcatga t 371

<210> 20977  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 20977

agcttcattc tttctcttta gtaatgcctt attcatcata tctacacat taaaggattt 60  
 caccttcaaa gggccacaaa catttgaatg caccaattca agcaactcaa attttctgga 120  
 gggagaatgc ttcttgaagg atactctggg ttgcttacca accatgcaac atgaacattt 180  
 ctccaaattt gcattcttca atcctagaaa catatccttc ttggctaaac aattcagccc 240  
 tttctcacta atatgactaa gccttcagtg ccacaaaaat gcctccatat ccataacatt 300  
 cacattgtct ctagcaacca aagcttttgc ccaatacaac ttgaaagtt tctccccctt 360  
 ggccacaatt atgttaccct tagtgagttt ccactttc 398

<210> 20978  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20978

agcttgccat tctgttcacg caggcgagca gggatgcttc ctccataagc aacagccttc 60  
 tggaggaatc ttctggaggg cccaagtggg cctgggttgc atttgcaccc ccatttttac 120  
 taagtacacc ccccttttct atttttttgc aactctttat ctgtaacgtt acaaaacttt 180  
 acgaactttg taacgatact tattttttct tctgcaagga tacgaaccct tacgacttat 240  
 gtatgtactc ttttttagct ttcaaagaag ttacagaaac ttacggattg cgcataaaca 300  
 cctctttttg acttccgtca cattacggaa gttcacggat cgcacaagcc tgcttccttt 360  
 tgatntctga gacatcatcg aacttcattt at 392

<210> 20979  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20979

ccataaacca caacgcaagc ttaacggata acgantagat actctaccnn cagcaggtgt 60  
 gatcgtgaaa ccaacgaccg cccgcgaccc caagcgacgc agagcagctc aatacaggag 120  
 gaacagctga cggacgactg gcaaacgaca ccagacaaag caaaaacggg gacacaagca 180  
 acgaccgcaa aacgagagga gcaacgtacc aagaacggga gaacggaaga ccgctacgca 240  
 caaaaaaac tataagagga agggcctaaa gaaaccacac aacccatggg aagagactac 300  
 cgaaaagcgg caaccacga gagcactacc aacaccacaa caagacgggt cgcgccacag 360  
 aataaccaat acgcggaaaa gaggtaaaac agccgg 396

<210> 20980  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 20980

tcttcttatg ctgatccat catacaattg ataactatat cagctattta aagcctacac 60



aaatgctgag ttgcaatcaa gttgtaattg caagttgaga gacagactaa gtaacaacga 120  
 gttagtata tacaatgct aatatatcaa ttatgggtcaa ttaattgtct ttagtccttt 180  
 aaaagtgaat atactataat atagtagatg tatcttgaca ctcttcgaat ccctcgcata 240  
 tataaaagaa aaaaaatagt agatgtatcc tagtttggtt tctgtttgac acccacattg 300  
 aggaatata agattagtga gtcaataaag cttatatgta tccatatgta atattttggt 360  
 gtgtggggccc ttaaatttat acaaat 386

<210> 20981  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 20981

agcttgttgt tgatgcttaa cttgagaagt gagagaatta agaccacca tttctttttc 60  
 aaaccacact ctgtcaagtt gttgtcttgt ctacaggatc aatttcagtt agatcagcca 120  
 aaacataatt ccagcacagg atcatacatg aaaattcaca agaagtgcac ataataataa 180  
 aaaaaatggc aaagaacaac aacgttggtt tgctttcatt tacatgggtc caatacaatt 240  
 ttatttaagc tgggtcaattt tccaattccg ccatcaaaga aagaaacgaa acccgctggt 300  
 gaaaaacggg tgtgggggtg gtggacgggt aaactatgct aaagtttttc acctagttac 360  
 attcacattc tgcagtatca acttctgcaa tatca 395

<210> 20982  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 20982

agcttttagc taattcaaac gacaataatg ttttgctcgg atgtctgatt gagaccgta 60  
 atacatcgag acgctcgata ttgaatgttg aagctctcag caaattcaaa cgacaataac 120  
 tttttactcg gatgtctgat tgagtcacag aatacatcga gacgctcgaa actgaatgtt 180  
 gaagctctca gcctattcag acgacaataa cttttttact catatgactg atcgagtccc 240  
 gcaatatatc gagatgatcg aaagtgaatt ctgaatctct aagctaattc taactacaat 300  
 aactttctgc tcggatgtct gattgagttc cgtaattctac tgagacgctc aatattg 357

<210> 20983  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 20983

agcttttctg tgcaaggaat atccaaggaa aattccatca tctgacttag catcaaattt 60  
 tcctaagttt tcattaccat tgtttaatac aaagcatttg caaccaaaaa catgaagatg 120  
 tgaaatattg ggttttctac cattaacag ttcatatgga gttttcttta aaatgggtct 180  
 tattaaagac ctattcatga tataacatgc agtattaacg gcttcagccc aaaaatattg 240  
 tggaacagga gtatcattga ataaaggctt agcaatctct tccaaagatc tattattctt 300  
 ttcaacaact ccattttggt gaggggttct aggtgcagaa gaattatgtt caatgccatg 360  
 cttttcacia aatagatcaa attctttatt ttc 393

<210> 20984  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 20984

agcttcatat tatctgtgag tgattcacgc ttaacgtcac tatctgcgct aagcgtactt 60  
 ccaatgattt caaaacaaaa cgatgttggc gcttagcgca tcctttcccg ctaagctcag 120  
 cttgaaagct caactgacaa aatgaatttg ggacttacg tacaatgacg cgcttagtgc 180  
 aactataata aattctcata gagaggaagt ggcgcttagt gcatcatcca cgctaagccc 240  
 actgcttaag gtgcaactca cagtgaagat gatgggctta gcgcactgat gtgcgcttag 300  
 ctgaaccatt cacccaatca atcatgggtc tctgcgctta gcatgagcaa gctcagctta 360  
 gcgcgtgaag agatggtgc 379

<210> 20985  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<400> 20985

tggaagctgg atctttgagc tttcaagagg cccatcaatg gtgaatctcc accacggaga 60

tgcacgga gacaaaggag aagaagtgag aggaggcgcc atccactacg gaataaccca 120  
 tggaataagg atctttacca cccacatgat cattggataa gaagcttgga gaggatgcct 180  
 cattggagga aaataaagag ggagagaaat gagagagggg gggagcacta aacttgaagg 240  
 aaaaaaaaaag tgttaaagct gaactttgag aggtggctca caagactctc attcatctaa 300  
 gctacacaag tgttacac 318

<210> 20986  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 20986

tatttgtgct caatgaaagc accaatgata cctagctttc gagggctagg gaacctccgc 60  
 gatacccgctg acctttggaa gctcgaagga actcgcaaag agagagaaaa cgcgagttca 120  
 gagagagaaa ctagaagaag aaaaggactc gagaggaagg aagagaagct tctggatttt 180  
 tctatatcc ttcaagggtt gttacaactt atttatatgc gcgagggtcc acaactaacc 240  
 gcaagtgggt agctactgct gctagcccta actaactaaa caacatctaa ctacccttcc 300  
 cgccaacgaa tcacaagaac agcttttacc caggccctct taccctaact ggtagatata 360  
 ccagtgttta ggtagttgct tcgttcgtct 390

<210> 20987  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 20987

atcttatgcy catatttcct tacgaacgtg cgcttgacac agacattctt tcaactaaaa 60  
 aaaaaaatgc accatatac aatcaaggca gcttcattac ctagattatt tacatgtact 120  
 tccaaggtgt atttgttact tacataacac acatctactt ggctaaattt acatacatgc 180  
 atactcaaag cattttgggg taccaaaaat tgcacatgtg cacatcttgg catatctaata 240  
 acctatacaa acttcatgat gaatattgac tatctacaca ataaagtgtc acatttcatg 300  
 ctcttttcaa gcttttgcta cctaaagccg tatgcaaatt caagtatatt ttactttggc 360  
 gac 363

<210> 20988  
 <211> 80  
 <212> DNA  
 <213> Glycine max

<400> 20988

agagagagag agagaaaatc cggggggggg ggtgccaatt tattgaaatt agggaaaaaa 60  
 attgaacttt taagtgtgtc 80

<210> 20989  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20989

cgcttgtgga gcttctatgg aagctggatc tttgagcttc aatgaggtcc tttattggtg 60  
 atttttcacc atagagatgc agcggaaggc aaaggagaag aggagagggg aggcaccatc 120  
 cactatggaa taagccaagg aagaaggagc ttcaccacca agaattgcct tggataagaa 180  
 gcttgaagag gatgctttaa tggaggaaaa gaaagagaga agggggggagc acgatattca 240  
 aggaataaaa gagggagaga agtggaaactt tgaagtatgt ctcaacaagac tctcattcat 300  
 canagttaca acaagtgtta cacatgcttc tatntataga ctaggtagct tccttgagaa 360  
 gctntcttaa gaaaacttcc ttgagaagct tctttgagaa aacttccttg agaagctaga 420  
 gcttatctac acacaccct ctcataacta agctcacctt cttgagaage 470

<210> 20990  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 20990

agcttctaca ttggttgaaa accggtatct acgacgggcc ccacaccgtc tttggtccaa 60  
 atgtcgttgt atgtcgacca caacaacatc ggatcactta ggaccgtct tttggtatgca 120  
 agaatacaac gtcagtggct ataaaagaat agacgtttta aaaaaggatt caacgacgca 180  
 catattagac aaccgctcgt ttgtttgggc catttcaacg tcgggttcgc aagactcatc 240

gttggttggtg tccatatcaa cgtcgggtac caataacacc cgtatttggt ttgtttctgt 300  
cacatcggtg gcggtcaca ccgacgttgt ttggagtatg taacgtcagg gtgtgacacc 360  
gtc 363

<210> 20991  
<211> 473  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20991

cttgtaggat tccgggggtac ccatcacatg tggactaag tggcgggtcgg gcgatggtgc 60  
acaacaagtt ctacacatcc acggtgcgcy cataaaaccca ccateccctg ttgcccacct 120  
ccaactgagc tcacgtactc ccacgtagcc catatcctcg tttctctcaa caccgggtcc 180  
ccatcaatcc tctcaagctt ccacaacatc caagcaaaac aacattcaaa cagcacaagc 240  
tatcacagcc aagcaaaagc agagcaaagg cagataactc tgctcaaaca ccaacaaaaa 300  
tcacagcttt tctcacttaa agaccacagt aacaatttct tcgatccaat tcgttaaccg 360  
ttggatcgac tccaaaattt tactggaagt ctatagtgc taagcctaca ttgtgaccgt 420  
tgngatctac tagcaaacat caagaactca ttctgtacta ctctttccac agc 473

<210> 20992  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 20992

agcttgggta taagcttttt ttgtaaaagc caagagtgat tgtgaataat acttgtaact 60  
ctgttaaagt tagtggaact ttttagattt ggatagccca atgtgattca tctagacaat 120  
cttatatacc gatgggtttg atgattacac agatataaat tgctgatgga ctaatgattt 180  
acgcttaagg aaatagggca tatttgatat aagcttgatt ggaatatact tatatgctta 240  
tgtgttacca gttatcatgc aaggtaattg gaacttattt gtataaccac tatattctgt 300  
gtccagagca ctgctataca gagagcgttc aatgatattg ataaaattag tcctatgcgc 360  
tatgtgttca tatgtgatta taggacatga ggaacctaca ctaatg 406

<210> 20993  
 <211> 241  
 <212> DNA  
 <213> Glycine max

<400> 20993

atcgaaaagt tggctgagac ttgtattttc ttcacaaacg gggcatgcat gatgaccctt 60  
 aacactgtaa ccgctgagat tcccacatgc tggaaagtca ctaatgagac agaagagcat 120  
 tgcactcagt gcacaggtga tacttgagaa tcgcatcggc ctctactaca ccctgattcc 180  
 acagatttct catatcgtca accaacggac ttagatagac atctgtgac tttcctggct 240  
 g 241

<210> 20994  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20994

agctttcttc aacaaacaaa gccttgattc aagatttctt caagatcaag ccttgcctca 60  
 aaacaaaggg tttcaaagtc atgcaaggct ctggtaatcg attaccagaa gggaagtttg 120  
 agaaatagct gttgaaaagg gttttgaaat tgaaatttga acatgtaatc gattaccatn 180  
 tntttgtaat cgattaccag caatgaaact cctgatattc aaattcaaaa gtcacgaccc 240  
 ttcaaaatat aattgtgtaa tcgattacca gaaacctgta atcgattacc agtgaagaaa 300  
 ttcatataaa acttcttgaa aagacacatc tctttacacc atattgaaaa ggcatgaatg 360  
 gcctatatat atgtgtgtgt gtgactt 387

<210> 20995  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20995

ctcaagcttg agaagctctc tatganatga aataatcgac tgccccattc tgtaatcaat 60  
 ttctaagttt ctaggaatgg aaaattagag ggatttgaat gaattaattg actatctcat 120  
 ttgttaatca attaaatttg ctttttctgt taaaactata tatacactta cttgttcatt 180

cttattagtg actcttgatt agatcttatg ttttaaaaat cctttctaag gttatctaac 240  
 ggaaccattc tgcatttcaa tgagagattc atggtgttca agatttggtc attttttacc 300  
 atggtttgag caaggaaaga atgacttgaa gatattgtga tatgcacatt ttggtgtatt 360  
 caatcatgtt tgcatttctt tctacgttat taccttgatt aaggttatca aggatattat 420  
 gtgagttctg atctttcttt tgtaagggtca cgacaagagt ag 462

<210> 20996  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20996

agctnttcgc aaagcttatg gtaaaatccg ggacctagcc atggtagaag tctccacaga 60  
 ggccattgcc tccctcgccc aatattatga tcagccattg aggtgcttca cctttgggga 120  
 cttccagcta tcacccatgg tagaagaatt taaagagatc ctaggatgtc ctctaggggg 180  
 aaggagacca tacctcttct catggttcta tccctcatta gctagaattt ctaagatagt 240  
 ccaaattctca gcgctggaat tagaccacag aaagcaagtc gaaaatgggg tggttggaat 300  
 agcgagaaaa tatttgaggg taaaagcaag aaacttgga ggtaaaggcg aatgggcccc 360  
 attcatagac attctcgcac tgtngatctt cggaggagtc ctctttccga atat 414

<210> 20997  
 <211> 98  
 <212> DNA  
 <213> Glycine max

<400> 20997

ctcttttacg agttcaggac tatttgcatt gtatatgacg acaagtcagg attgttcgag 60  
 actggtcgcc atagatgtca gttcagagga aataaaac 98

<210> 20998  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20998

cagcttttat ctgatatgaa ttataactac caaagttgag tctaattctat tgattttttt 60  
 tttgggtcttt ggacatggag agaagatgca gacgtgcttc tcaaacttgg ttccaaacat 120  
 gcacctactt tttacatgtc aatttttaag atctcagctg aaaatctact tacaccgctt 180  
 gttttgtata aaagcttata aacgtgatag gctataaata gaccttttaa catacctatc 240  
 tcttttttgg tttgcttcac ttgtcagttc gatttacgtg aggcaaggta ctatttttat 300  
 gagataagca aatcaaggta attttatgac tntaatcctg tttgggtgtca attttcttca 360  
 catttattaa ttntatgact tcttatttta ttttttagac tgaagtca 408

<210> 20999  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20999

tgtgggtatg atacacaaaa gaatagaagc acataattga ttatattcat cttctaattn 60  
 tgccggatca actagttaac ttgaaattga agagcgatta atatgtttca cccttcataa 120  
 cttataagta catgttgata acaaaaaata gcatcttcaa atgacaaaca cattaaattt 180  
 attttaatca ttttgaaaat tatgtatttt aaaaaatatt gggcttcact atggtcacaa 240  
 agttgtatag aatttgtggc tgttgggcat aattatctct aaatttagat tgttatttta 300  
 aggaaaaaaa atcttgaaag atgatagaga atgaattcgg tgatcgaata ataataacag 360  
 ttatataaca atgatgaatg ttgttattga aaagcacata atattcatct tctaatttca 420  
 tcggatcaac t 431

<210> 21000  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21000

tgcttataaa tcttcccaaa atcatacaaa caaagattaa tagactagaa tgataacgtt 60  
 cttattttnt caatcaaaca atcgtttttg atcaaataaa aaaaggactc attgacatgt 120  
 ttattcacca gatttttaaat agtctgctgt gcatgacaaa aagaaaagca gtgtcgagaa 180



gagatttgca ctgacaaatg caattacagg taaaccacct cctgggggaa aaaaattgac 240  
 caagcaaacc tgtcaatgct aggaatggga aaagaacaaa gttaaattgaa atatgtatca 300  
 gaagtaccgt tgacagacta ccacgctgag cctctggtgg aatctcaaaa tccagttcac 360  
 gtttctgcaa aatcatgcat ct 382

<210> 21001  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21001

tgtaatcgat taaaccgata tgaaaactta tctgcaagct attatacact tatgtaatca 60  
 attacgatta gcctgtaatc gataaaaata gagagtttta aacacagaag aaattttcta 120  
 actttagaac ctttcttctt actcctacat gatgatgcat gatgcacata tgaaaagata 180  
 gagactaaga tgcaacacac atacaataat caatacaaat gtcactcaaa agagttggac 240  
 atgtaaaaga caaaacttct tcaagcttca aggctaagtc ttcattgttg tccacctatc 300  
 tctaacaata gacagggtat ctctaacctc ttaattatnt ggatatacnc taaccacttt 360  
 atctcttgca ggtatntaat tatctacaag caacacatta tctgttagta ctaaattatc 420  
 tactagctnt tatctcntaa atatatatta tctctaat 458

<210> 21002  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21002

agcttacaca aacattcatt agtccaaaac acactcaaca natagtcac atccatccac 60  
 aattccaatc aatcatgctc agtatgatgc atgcacctga cctcaaattc caaatgcaat 120  
 gtggtaccat tatcaaggaa atagcctaag agtctccaca tgacactctc acttatgaaa 180  
 actaggcagt aagtgtcgag gtcaccctgt catgcacagg aaactcccc cccttggtga 240  
 tcaacctgag tctcaaggga attccaaatt gaggacatg tgtgacatcc tggaaatttc 300  
 taccgggaat ttntgtaaac ggtgcatntt gaatggctat atatatatat aagtattatt 360

cagtgtatgt atatatgtat atatattcct ggtaggagta ngtatTTTgg ggg 413

<210> 21003  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 21003

tgtagggtta aagtctcacg attgtcacgt gtcacccaa ctattgtag cegtggctat 60  
acgagacatc ttgccaaaca aagtcagggt cacgataact cgctgtgct ttttcttcca 120  
tgctatatgt agcaaagtga ttgatccagt aatgtttgat gagttggaaa atgaggccgc 180  
aattatactg tgccagctgg agatgtatTTT tccccctgct ttctttgaca tcatgattca 240  
cttgattgtg catctggtca gagaaatcaa atgttgtggt cctgtttatc tatggtggat 300  
gtacccgggt gagcgataca tgaagatctt aatagggtat acaaagaatc tatatcgtcc 360  
ggaagcatct attgttgaga ggtacattgc agaagaagcc attgaatTTT gttcagaata 420  
ctt 423

<210> 21004  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21004

agcttgaaga ggataattta atggaggaaa agaaagagag aaggggggag cacgaaattg 60  
aaggaataaa agagggagaa aagtggaact ttgaagtgtg tctcataaga ctttcattca 120  
tcaaagttac aacaagtgtt atacatgctt ctatttatag actaggtagc ttccttgaga 180  
agctntgttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt gagaagctag 240  
agcttaggct acacacaccc ctctaataac taagctcaca tccttgagaa gcttccttga 300  
gaagattcct aaagaagcta gagcttagct acacacacat ctctaatagc taagctcacc 360  
tccttgagat gagaagctag agcttatgta cacaccctct ataatagcta a 411

<210> 21005  
<211> 448  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21005

tccatcaatg aataacaact aataatgcac ctgacctcaa ctatcaaatg caatatggta 60  
tcattcatta gaaaatagcc taagcgtatc cgcgcgacat tctcacctaa gaatacttgg 120  
taacaagtgt cgaggtcacc ttgtggtgca tagacaactc ccttcccccc cccccccccc 180  
nngcatgggtg atcggcctga gtctcaaggg agttccaaac tgagtaacat gcccccaagt 240  
ataagtatgt cccctcatga gaaactacaa gtacttattg gcaagctatt tccatgaaat 300  
atgaagtatg aaacataggc accatcaatg cattgaccgt ggataattaa agattttaat 360  
tcatccccct ctagagatgc tttaaactct ttaaccattc tatttctcgg accaaggata 420  
tctatcatgg tcaactgcac cctcatgt 448

<210> 21006

<211> 395

<212> DNA

<213> Glycine max

<400> 21006

agcttgtgca tagttgttac agacaaatgg acctacaaaa ttaataatca aatagtattg 60  
ataaaaaatg tgcataaatc aagtacaaac ccttcaaaac aaagtaaaat caaatagcaa 120  
ttttagctga aaatagaaaa agaagaaaaa aaagggataa gaaactaaag ttacaactaa 180  
atgtaagaac aaaatcaaaa ccttgaaat ttaatgtgtg tgagagagag ctgaaccgaa 240  
tgaattgtga cttttgaaaa acaaatacaa gtgaaaataa atagaagaga gtgattatgt 300  
tgaactaaga aatatatact tcgtggcatg gtttttgac agccatatca taatcgtcct 360  
ttgagaccat tgagaaatcg agattcattg gcaat 395

<210> 21007

<211> 456

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21007

cgtgacacta tgaaactcag ctnataagcg cgggttcggg agacaaaggt ttagcgttcg 60

ctatatgcga agatgatatt ccgagtactg tggatttggc ccgaccatgc cctcctgatt 120  
 tccagctggg aaattggcga gtggaggaac gccccggcat ttacgcaaca agcataatgt 180  
 aaacctttac ggtnttaaaa gctctatagt tgggcctaag ctttagagtn tttccttttg 240  
 ttaagggctt gtgtctcttg gttttgaaat tataatacaa ggatctttct tcatctgttc 300  
 ctgggtctcta cccactctca ttcatttgta tgtttacttc tttttctgaa acggcagatc 360  
 cgatgacgag tccccgaag gtactaatac ctgtgacccg tctatcgact tcgagcaaga 420  
 aatgaatcan acggaagatg aaggaaatga tgatgt 456

<210> 21008  
 <211> 489  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21008

tctcatactt tatctcgacc catcgatgtc gttaatttta ataacaaaan naatnaagcg 60  
 tgggtgtgctg atgcactacc aatggcgatn agccggcccc ggataactta gacgactgca 120  
 gcatgctatc tttgtcctc cgcaagcctt cctggacag ggccctgaaa tcaccgaacc 180  
 ttttatttta aaaaaaaaaa aatggcgggg attttgcttg gcccaaccacc cctgggcca 240  
 aattataaaa aaggacgaag gggaacgtt ttgcattcaa aacttttttt cccccattc 300  
 aaaaccatac ccccggaatt tacaagttg cagcctaggg cactattttc aattttttga 360  
 ttcgtttggg ctgtattcat cacaacaagt agtatccttc ctaagcttca gctttcatgg 420  
 gtatttgact ctttgtgctt aaatgcgat gagccaaaag gggggattcg gtggttctgt 480  
 tggcgggga 489

<210> 21009  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21009

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 cgagtacttt ggatttggtg cgaccatgcc ctctgattt ccggctggga aattggcgag 120

tggaagaacg ccccggcatt tacgcaacga gcataatgta aacctttacg gttttaaaag 180  
ctctatagat gggcctaggc tttagagttt ttccttttgt taaggctttg tgtcttttgt 240  
tcttgaattt ataatacgag gatctttctt catctgttcc tgggtctctac ccattctcat 300  
tcatttgcac gtatacttct ttttctgaga cggcagatcc gatgacgagt cccccgaagg 360  
tactaatacc tgtgacccgc ctatcgactt cgagcaagaa atgactctaa cggaagatga 420  
aggaactgat gatgtgtgac t 441

<210> 21010  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21010

agcttgtaga atggctagac atgatacatg tcagggttg gtttggttca aggataaaag 60  
gggtgccccca cattatttcc atgacacaaa tgcaaaaaat gatgatttgg aaactttatg 120  
caaaactggc catgcatgcg cctatgcgga cgctcaagtg tcaaattttt atgggtcatgt 180  
gatgctaggg ctcacgattc atttctctta tcttaaatac acccaatgtt tccaaaatat 240  
gatcttttat caatttgtgc attcctccaa gtccacttcg ggcgttcggt gaaattttca 300  
cagcattcac ccttcaggtg tagacacgtt ttttttcttc aaaaatcggt tatgatcatt 360  
gaattntttt caaagaatag ttggaaatca tctcttttca aaag 404

<210> 21011  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21011

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agagttaggt ctatccgcgg gccacgagca tatgattgag gacgaatatg cccaagtata 120  
cgcggaanaa aaggctagat gaagggtgat cgactcttta caccaagagg caaccatgtg 180  
gatggatcga tttgctctta ccttgaacgg gagtcaagaa cttccccgat tggtagccaa 240  
ggccaaggcg atggcagaca cctactccac ccccgaagag attcatgggc ttctcggcta 300

ttgtcagcat atgatagact taatggccca cataattaga aatcgtagga cacttgatg 360  
gtctctcaga ccttgactag atatgacttc cttt 394

<210> 21012  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21012

agctttatct tctttangaa tcttcttaag gaagcttctc aaggaggtga gcttaattat 60  
tgaaaggggtg tgtgtagcta agctctagct tctcaaggaa agtttctcaa aaaagcttct 120  
caaggaagtt ttctcaagaa agcttctcaa ggaagctacc tagtctataa atagaagcat 180  
gtgtaacact tgttgtaact ttgatgaatg agagtcttgt gagacacaac tcanacttca 240  
acttctctcc ctttttcttc cttcaatttc gtgctcccc tccctcttctc tctccctctt 300  
tcttttctc cattgaagca tcttctcaa gcttcttctc caaggctcat cttgggtggtg 360  
aagctccttc ttccatggct tattccttaa tggatggcgc ctcctctca 409

<210> 21013  
<211> 353  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21013

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ggccgagttg agctgcttaa catcaatcgc tatgcaatcc atagggtttc acaatgttac 120  
ggaaagaaat gagcaaatac tcataatgag ggcaattggt tgcgacatg tggatttttt 180  
ccaaccgagt taagctgctt aacagcgatc actgcacaat tcgaagggtt ttgcaatggt 240  
ttagaaggaa atgggcaagg aactcaagat gggggcaaaa tgggtccatta tagaacgttc 300  
cacaaccctt gggcccacct ggatccacta gatgacttan gggggaagca acc 353

<210> 21014  
<211> 404  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations  
 <400>        21014

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agcttccatg atatagaaaa atgaaaaacc tcaattactt gaaaataata aaacacatgg   60
agaagttgac cataccagga aaataatttt tcagcaaaca tttctgcagc actaaaagaa  120
ccataagctg aaaaccacaa gagagatcgg tgtngattca catgcagaca agagagcaca  180
attagtagtc taaagttaca cccaatccca ctaacttgag aattctccaa acgagttcat  240
ttcaaattca taagcaatga cccaaaactt tcaaagatat ataccctcat acgataaaaa  300
ctactaaaat ggtattttaag ttgtacaagg aaaaatcaaa atacaccaga atagtcctct  360
taagtcttaa cccgtgacct caatatatgt attctaccca tcat                               404
```

<210>        21015  
 <211>        456  
 <212>        DNA  
 <213>        Glycine max

<400>        21015

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ctctagatcc ttgaggtaat atgcgtaag ctagtgacgt taaagaagcg cttactggga   60
ggcaacccaa ctctttttct ttgttttctt aatcattgca tatagttagg tttcaacttg  120
tttgggattg ctagagtaag acatcaacat gttttgtatg agaaaaaaag ggttggttaac  180
gcttctgtga agctgtggat gagaaataac tctgaaaaat ttttagtcat ccaactcgctt  240
agcgctccct gtacgctaag cgaatcatcc ttcattgtgc gagcgagtcc tcaactcgcg  300
taagcgcacc aacccttacc cattggctga aggggtccat ctaagcgaga cagttgtgcc  360
aagcccaaaa acttcttttg aatcgcatth attggaattg ggctaagcga gtcaactcgc  420
taagcgcacc tatgcactaa gcacaaatat ctctct                               456
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<210>        21016  
 <211>        410  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        21016

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agcttctaga caaattgcac gctagtatat ttctcgcctt tacgctaact tctataaatt   60
tctgttacia aaactaattt cgcctttatg ccgccaaggt acataaagtt ggatctctac  120
```

cacacctcaa cactaaaacg aataaaccag atttgaatgc actttttttt ttttaatcat 180  
aactacaatt tategtaaag agcatttcag catatgcac acaggtgaat gcatgtgttt 240  
tetcacctgg attaaaaacc caatccatgc caatgccaac ccctacgtaa caattgggaa 300  
gatcataaag aaggctatat ccaattcgga gatgaagaaa acgaaactgt attcaatgca 360  
aaagaagaac acttggttaa tctctagcaa aggaatntac atcaatactc 410

<210> 21017  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21017

tgcagctaaa caggccaaaa agttgagtag attnttttcg agtggtcgtg aatcatcgac 60  
taccatttgt attgcttgta agcttgggtt cttcatgttt aattcccgta aacaatttga 120  
taatacaatg aaggggctaa tggcttatat tccaattgct tctatgataa gtattatttc 180  
catctagcag atatatgaac atgaacacgg aagggggaac aaactcagac caacaaacag 240  
gatctaaaat atgtccgtaa aatttttctt tcgtggaaga taacgagtga ccgagctgcc 300  
gttgacagaa tcacagttgc tgttcttcat agaccgata aagggaaca tattaatcca 360  
ggtttccatg acaagcgtgg cgagtttgag gacacattnt cccttgaacc atcatttcgt 420  
gagtcgatca cttttttacc c 441

<210> 21018  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21018

agcttttctca aagtttttcg gttttccaaa ccttgaaaac ttgtgctatt catccttttc 60  
attctcttct ccttttgccg aanagaaatc accatggact aaccgcctga attctttttg 120  
tgtctctctt ctcccttttc caaaaagaac aaaggactaa ccgcctgaat tcttttgtgt 180  
ctcccttctc ccttgtcaaa gaattcaaaa cgacacagtc tgagaattct tttgattctt 240  
ccctttccca tatacaaaag atttcaaagg acaaaccgcc tgagaattct tttgtatccc 300



cattcacaaa gtttcaaagg tttaaccgcc tgagatcttt ctcttaacac attggagggt 360  
acatcctttg tgggtacaagt agagcgtaca tctacttgng tttgactg 408

<210> 21019  
<211> 450  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21019

tgtaggatta tggngtacct atcacatgtg gtactagggtg gttgtcgggc gatggtgcac 60  
aacaagtttt tocacatcca caatgcgcgc ataaaccac catcccctgt agcccacctc 120  
caactgagct cacgtactcc cacgtagccc atatcctcgt ttctctcaac accgggtccc 180  
catcaatcct cccaagcttc cccaacatca aagtaatata acattcaaac agcacaaact 240  
atcacagcca agaaaacaga gcaaaggcag aaaactctgc caaaacacca accaaaatca 300  
cagcttttct cacttaaaga cccagtaac aattccttcg ttccaattcg ttaaccgttg 360  
gatcgactcc aaatttttac tggaagtctc tagtacataa gcctacattn tgaccgttgg 420  
gatctactag caaacatcca gaactcattc 450

<210> 21020  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 21020

agcttcaaaa ctcaactcga ggatttgaca aagaacagag cctccaaccc tcccttcgcg 60  
atTTTTTTga ggtaatcatg atttctatgt ttttctctag ttagattgag cctattagtg 120  
tatctcttgt gatttggtta ccgttattag atgtttttac atttcctttg aaaaaccctt 180  
gaaaatgaga cattataaaa gttgtctttt ataaaattga tttcgTTTTt gtgacctctg 240  
ttgaacctg atcacattgg cgtgatcgtt atttcaaaat gacatctctt tgatgtggac 300  
cccaaaaaca ccattttaga cccttttaaa attgaatggg tgTTTTtacc cggatgttaa 360  
aattgacatt gtctttgaaa tctatactaa attgtctttt gattgatata taaag 415

<210> 21021  
<211> 428

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21021

aatggatgta aagagtgcac tnttaaatgg cttgattcaa gaagaagtat atctagatta 60  
tcccctagga ttgaaaact cagacaagcc taatcatggt tataaactga aaaaggcttt 120  
atatggtttg aaacaagccc caagggcttg gtatgagcgt ctgagtaaatt ttattttaaa 180  
taaaaaattn tctagaggta aagtggatac cactcttttt ataaagagaa aactaaatga 240  
tattctattg gttcaaatat atgttgatga tattattttt ggatccacta atgagtcatt 300  
atgcaaggaa ttctctcttg acatgcaaag caagttcgaa atgtcaatga tgggagaatt 360  
gaattacttt cttgngttac aaataaagca aactaaagaa ggaatanttt tcaaccaaga 420  
aaaatact 428

<210> 21022  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21022

agcttttgaa cccacacttg tagcgtcaat gcaaggaaac atgcttatgg ctaggaatcc 60  
aaaatttggt tttagagtta gaaaaacatg aaaattaaga ttgcttgtg agaagttttt 120  
gctcgaattt gggctgcccc atgtttgata ctttacatag aggtagcgtg gaaaacacct 180  
tgcaatagtg tgtatacata ggtaaataata aggagcatga aattcctagc aaagtatgaa 240  
taattgtttt cttaaatgaa tgtatgatag tgtggaatgc cttttttaaa tgcaaataatg 300  
tgcaggatgt aattagcttt ccaatatgca tataaataaa taggagtgaac acagtaaaaa 360  
tttgtatggt gtacttcana tgtacgtaag tagtttgtga t 401

<210> 21023  
<211> 448  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21023

tanacattca atttcgagcg tctcgatata ttacgggact ctatcaaaca tacgagaaaa 60  
 aagttattgt ggtttgaatt tgctctcagc ttcaacattc aatttcgagc gtcgcgatat 120  
 atattacgag actcaatcag acatccgaga aaaaagttat tgtcgtttga attggctcag 180  
 aggttcaaca ttcaatttcg agcgtctcgt tatattatgg gactcaataa gacatccgag 240  
 taaaaagtta ttgtcgtttg aatgtgctca gaggttcaac attcaatttc gagggctctcg 300  
 atatattatg ggactcaacc agacatccga gtaaaaattt attgtcgttt gaattggctc 360  
 ataggttcaa cattcaattt cgagcgtctc gatataattac gggactcaat caggaatccg 420  
 agtnaaaagt tatgtcgttt gatttggc 448

<210> 21024  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<400> 21024  
 agcttcttat tcttggctga tgaagatgaa tttgtggcta cttcatgcac tcctctaattg 60  
 acaatagcat catttctggc actaaattga tgggagttgg aagccatctt ctgaattaaa 120  
 tttctggctt cagcaggggt catgtctcca aaggctccac cactggcagc atttatcata 180  
 cttctctcca tgttattgaa tccttcataa aaatattgga gaagaagttg ctgagaaatc 240  
 tagtggtgag ggcaactggc acataagttt ttaaattctt cccagtattc atatatgctc 300  
 tctccact 308

<210> 21025  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21025

tatgctgcan atatttataa tagacccctt cagtagcaaa actcaacaac agttttataa 60  
 ttatgatctt tcaagcaaca aatacaatcc aggttggagg aatcatccaa atctgagatg 120  
 gacaagtcct ccacaaaaac aacaacaacc tgtccctctt ttccagaatg ctgctggctc 180  
 aagcaagcca tatgttctc ctccaatata gcagcagcaa tagcaacagt cacaacaaag 240  
 acaacaagca actgaggccc ctctcaacc ttccttagaa gagttagtta ggcaaatgac 300

catctagaat atgcaatttc agcaaaagat aagagcctcc attcagagtc tgacaaatta 360  
 gatggggtag atggctactc agatgaacca agctcagtc taaaattctg acaaattgcc 420  
 ttcgcaaact atgcagaatc cgaaaaatgt gagt 454

<210> 21026  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21026

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 atgagcgcgg aagaagactc tggaccaata agaataagtc gaagaatggg agaaggttgt 120  
 tgctgggtgc acggacgatg tatgagcgcg gaagaagaca ggtttttttt ttagaaaatt 180  
 tattaagttg tgatttttaa atgaagggca ttttcgtaac ttcaatgaat tgctgggtgc 240  
 accaacaatt atgctgggtg cacctagcaa cagccggccc acaatgagaa aaagatccca 300  
 aattttattt agtactaata tacctcaaat aatatattat tgctaaatta tatgtgataa 360  
 taaatgttac ataaagcaat tataatttta ataaatta 398

<210> 21027  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 21027

gtgtcgggtgc gatcgggtact ccgtagttgt ggcagagacc tttaatcaat gccggataac 60  
 ccactgcact attggacttc tcaaggtcca ccgggtgtct cgggtggtgca atacctacaa 120  
 actagtggat ggcaftaag ataagttacg ccatatggac attgatctgg gtcatgatgt 180  
 tatagaccaa ctgacatttg ggtagcgtga gatcagagtt atggtcactg ggaaggatgt 240  
 tattgagcag gagcgtcatc caaatttgag ttagagtggg catgctagtg cgcagatgcc 300  
 gcacccgcct ccttgctacg ctccatgcaa aatcatgtcc cggggagcaa agtagctgac 360  
 ttatggcctc ttcattcaaa acctaaaatt ggcttcttct ctcaatgtac ttgcatcatt 420  
 gtccctc 427

<210> 21028  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 21028

agtctgttgg taaccacctc cctcttttcc cctataaata ggggaaagag ggcaaagcaa 60  
 attcgttcag cccttctggt atttaggatt cacttgaaat tagtgacaaa aattgttttc 120  
 gtgaagaaaa tccaagccga ggtgcttccg taacgcttct gagacgtttc cgtgagcgat 180  
 ttcgtgaaga ttctccaccg ttcttcatcg atcttcgttc attcttcgtc ctacttcggt 240  
 cttcaaccgg taagtccccg aaatcaaacc tttcaattca ttctatgtgc ccttagtggt 300  
 ccacacttgt ttgcgtgct tttattttta tttcgtttgt ttcccgtaac cctgtattga 360  
 tgtgttttaa ccattcatat aagtcgtttt ctgcctaata 400

<210> 21029  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21029

ggaggagtgt gcaagtgagg actcacnct tgtttaacac cttcttaacg naatatgctg 60  
 gccnatgtgc gggagtactc gcctgacacc catcatccgg tgcaactccc gcctacacgg 120  
 tagctcattt tctcccaagc cttgcatcat ctagtgtttc tcaaaaacga aaaccctca 180  
 atcatgctca cgatcaaagc ttgaggttcg caatgttaca cgaacaaact ctccgggcaa 240  
 agaactgacc tatgcataca cttgcccaca tccaagcaaa agccagcggt tcaattatga 300  
 cccagagcag tcctcggttca ttcgtcaccg tggacgaccc acttttatgg aattctatac 360  
 tagactcatt tgacggtgga ctttacatac tccaaataat ctgcctgtcg 410

<210> 21030  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 21030

tgtcttatgg tgatggagag agaaggggta aaagggataa aaagaataag aaagaacgaa 60

taaatctcaa tcatcaatta ataaaaatct gacgatgtaa aatgcatcct caactctcct 120  
 tatagctaga gtctacaaaa tttaatgcct ttaagatttt tgtgtgtgag tgaaaataat 180  
 aaatatttgt caagattaaa tcacaaaagt tatgtaagtt ttttaaaaac tcaatcattc 240  
 ttttaaggaa taatataaca ttaaattttg aatatatata tatatatata tatatatata 300  
 tatatatata tatatatatc ctagatatac ttatctcact ctcatattaa aatagtcac 360  
 ctaatatttg tgtatgtcat cctaataattt gtgtatgtca tgta 404

<210> 21031  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21031

tgtcaaccac gatgccagg tgctagtgt cttactcat ctgcaagtt gagcttatat 60  
 ggaccgattg gggttatcag ctcttggtac ggtgcagtat cctaccgcat agtggatgat 120  
 gtgtccatga gattaccatc acggtggatg atcttgtctg ttgcacttac ctgtgacaag 180  
 aaagcccatt tatcatgtcc ctctgctctt tgatagtgag gcggtgaagg tttacatggc 240  
 tagtaggcct atctcacgct tatgttgatt taggctcgta tgtttgggct atcatgactt 300  
 atctcatgca cttgatcgac antatgatac ttatatataa gtcacgact cacattcatg 360  
 tcacctacct ttagtatctc aacaacctgg atgcttgcca ctagtacgca tgggaagtag 420  
 ctacactggc gtgcctttac aaccatct 448

<210> 21032  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 21032

ttatcttgta acaatttaag gggttatgtta gggtaaacag atcaatttaa ctccctttga 60  
 atgtgtgtat catctaagtt ccataagtt gtttctataa tcgaaaagaa aatatggata 120  
 aattgttttt atataacttg tcaggtgttt tcataagtta tcctagagaa ctaattaaaa 180  
 taaccttgta acagctcatg gacatataat aagttatttc acaaattctc tctattatca 240

taagatatgc tcacatgagt cgttcaaaat aatatccaca ccctaaggtc gtaacagaga 300  
aagaaaatta aaaaccatcc aagacataac agatgatatt cagacttaat atat 354

<210> 21033  
<211> 441  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21033

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gtgaaaaaat gttaactatt aattattaat tttttgtttg tatgaaaatt gaaatccata 120  
acctttctat tntgccttct tcactcacca ccaaaacaaa cattataacc ccaaagtatt 180  
tgacatatta gataatTTTT tctactaaaa tattatgttc atattagaac attttgctcc 240  
tatcgTTTT acgaacactt cctttaagat tcctttactt accacatgca cganatgagt 300  
gtcaagtcca ttcgattgta agttaaacgc atagctggag cacatgcttc gtcaacacat 360  
ttogatattn tttattgggg ataccactac atttttctttt ttaanataga gctagtaaca 420  
aaaaacaggt aaaatgtgtt t 441

<210> 21034  
<211> 404  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21034

agcttctatc caaatggact taccttgaat taattccttt gatagccctt ttgagccttg 60  
tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatattacc 120  
atatccttaa ggaatTTTtg agctttggaa ttgttttggg aataagtgtg gggggTTTT 180  
gtttcattgg acaacttgtt ttgttgacta tgcttcatga tgtattnngg gtcatacttg 240  
atgtacattg tatattggtt aaatgttgga catgctgaat gaaatgttgt ttctcaaagg 300  
taaaaaaaaa aaaaaaaaaa tcaaaaaaaaa aaaaaaatcc aaaaaaaaa gagagaaaag 360  
caataaaagt gagtgaataa gatcttaaat ggcacaagaa tgat 404

<210> 21035

<211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21035

tgcatagcag nttctactac ttaagctgat tacatagttg tatgaagttg ttgtactcaa 60  
 agtcttttga tgaagcaaca actcgaagac tttggagtaa accttgatca cattcctcta 120  
 aaatgtgaca acacaagtgc taccaatcta acaaataacc cagtcaagca ttctaggact 180  
 aaacacatat aaataaggca tcatttttctt agagatcatg tggtaaaagg tggctgctgc 240  
 attgagttca ttgatagtga gcatcaacta gaagaaattt tcactanatc ttctgctaga 300  
 gataagtttt ttattagaaa tgaactatgc atgtagatg catctagcat aaaatgacat 360  
 tctgtttgca tagtgtgtga tgcacattgc tactcatatc natttgttt 409

<210> 21036  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21036

agcttctcgt tattagtgc cagtgtcata ccctaatttc gtccggggac ctttgcttga 60  
 taacatgcgg cctttctttg gtcctttgaa agtgcttgac acccatcatt aagcaatttg 120  
 tgaaattcca agacatgccg aaaaaccaa aaaatattaa tgcacaatcc gtaagtttcc 180  
 gtgacacacc gaaaattaaa tggaagcatc gttgcataat taagcgagat tccgtaaaca 240  
 ttccgtaagt caaaaagggg atgattatgt aatccggaag gttccgtaac attacgaaa 300  
 gaaaataagt atcgttacga aattcgtaag ttccgtaac ttacgaana aagaatcaca 360  
 aaananaaat cagagggggg tgtacttagt aaaaat 396

<210> 21037  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21037

nttgaagct ggaatcattt atcctatctc tgatagccga tgggtgagtc ccgtccaggt 60



ggttccgaag aagaccggcc tcacagtgat aaaaaacgag aaggaggagc taattcctac 120  
 tcgggtgcat aacagttgga gagtctgcat tgattatagg aggctgaacc aggttaccaa 180  
 aaaggaccat tttccctgc cattcattga ccagatgctt gaacgcctgg caggtaaadc 240  
 ccactattgt ttccttgatg gtttttctgg ttatatgcaa attactattg ctcctgagga 300  
 tcaggaaaag accacattca cctgcccctt cggcactttt gcctatagga ggatgccttt 360  
 cggcctgtgc aatgcccctg gtaccttcca gcggtgcatg attagtattt tcagtgattn 420  
 ttagaanatg catagagggtg tcatggatga tttcact 457

<210> 21038  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21038

agcttcttat ctaatgctca tcttggtggt gaagcttctt cttccaaggc ttattcccta 60  
 atggatggcg catcctctct cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120  
 aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180  
 gcaagcttcc taagggtgtc ctcctcagtt ttagacttgg cgatcatgtc gtctatgtag 240  
 acttcgatct ctcgggtgcat catgtcgtgg aacacagcca ccatagccca ttgataggtt 300  
 gccccgacgt tcttgagccc aaaggacatc accttatagc agaaccttcc ncacagggtg 360  
 acgacacatg gtcttttcca tctcctctgg tgccatcttt atctg 405

<210> 21039  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21039

ctcaagcttg ctaacccatg gaagctccta atatctccca cactntntgg ggtgggcat 60  
 tcttgatgg ccttgattnt ctcagggtcc acttgagccc catttctacc aactacaaaa 120  
 cctaagaaaa ctatattatc tacacaaaag gtacacttct ctatatttgc atagagggtg 180  
 tttttcctaa ggactgaaag aacttgccctg agatgtccta agtgatcate taggctccta 240

ctgtacacta aaatatcatc aaaataaaca actacaattc tacctaggaa atcccttaag 300  
 acatgatgca taagcctcat aaagggtgctt ggtgcattag tgagcccaaa aggcatcact 360  
 agccattcat acaaaccaaa cttggtcttg aaagccggtt tccactcatc accccttttc 420  
 atcctgattt ggtgataacc actnttaaga tcaatttntg aaaagata 468

<210> 21040  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21040

agcttttgtt aatcgattac actaatttgg taatcgatta ccagtgattg tttctgaata 60  
 aatcaaaaga tgtaactctt caaatggttt ttgacttttt caaattgggtt ttaagttttt 120  
 ctaaaagtca taactcttct aaatggttct cttgaccaga catgaagagt ctataaaagc 180  
 aaggctttga tttgcttctc aatatacttt tocaatcaat cttataaaat catttacaag 240  
 ccttgaatct ctttgaactt cttcttcttc tttgtgcaa aagctttcca aagttatctg 300  
 gttttctaaa tcttgaaaac ttgtgctatt cattcttttc atctcttctc cctttgcaa 360  
 anagaattcg ccaaggacta accgcctgaa ttctttctgt gtctctcttc 410

<210> 21041  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21041

tctaaaggag gtcaacaaca ggatgggtgt aaggaactat ggttgattaa actttctagc 60  
 aaaataacag tttttgcttg gaggttaata gaagataggc taccaaccaa gatgaattta 120  
 cataggagac atgtgcaact gcaggatctg cgatgtcctt tctgtaaaga agctgtagag 180  
 gaggcattctc atttgcttct ccattgcac ttcacccaac caatttggtg ggcacgatg 240  
 tcttggtga actatcatatc tgcctttcct cttgggccta aacaaaattt tctacagcat 300  
 atcttcactg aggtaaaagg attaaagatt aagagatgga gatattgggtg gatggcggtc 360  
 acatgggcta tatggaaact cagaaacaga attctgtttt cgaatgcaga attngatgct 420

aacagattgt ttgatgaggg ctgtttct

448

<210> 21042  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 21042

agcttccttc tcatcacttg caaacaata gaccttaaac aagccatgca cccactatct 60  
caaactcttg ctaaccaata tatgtttgtc gtagtcatca atgaagattg gttaaagagg 120  
aatagcaaaa taatagagta tgatcgcgag aaagaaaaga gaatgaaaa aactcattaa 180  
taaaagcaga acaaggatgat aaaaaaata aaagaaattg gataagaata tttgagagga 240  
aaggaagatc gtccgacaaa acaatacact tttgaaaata aaatagacaa tttatataaa 300  
aaaaacacaa gtataaaatt ttcataagtt aaaaaataaa aataaaaata aagattcaaa 360  
caaagaatg aaaaatgaag aatattgaaa aagaatacga aatgaagggg aagc 414

<210> 21043  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21043

tgatgataaa ggtgaaaaat gtatctttct tgggtgtagt gttcagtcaa atttatataa 60  
attgtataat cctaccacta aaaagatcat tattagtcgt gatgttggtt tttatgaaga 120  
aagattntgg gaaaataaca tagatgaaac aaatcaaatt cttgcaaact ttgatgaaga 180  
gttgagaca aggttgctag aagagcaaca aatttcagca atcacagttg aagatgaaag 240  
acctcaacga gcaagaagaa ggcattgatg gatgtctgat tataaggtaa cagaaattga 300  
agatccgatt acttattttg ctttgttttc atattgtgac cctacaacct ttgaaagtgc 360  
tgtcaaagaa gaanaacgga gaaaagcgat ggatgatgaa attgattcca ttaaaagaaa 420  
tgataactng ggattgtgtg atcttccaaa tggacataat at 462

<210> 21044  
<211> 407  
<212> DNA

<213> Glycine max

<400> 21044

agcttatgga aataatacat aagaaagata actaagagtc ggccagggga tcaaagcaac 60  
gcctgatgaa gctcatatca ttttcaagcc tagtgataca agtatccatc ccataaaagc 120  
gagtatccat cgcatacaaaa tgctcaccca caaatgctcg aagatcgtgg agctctgtga 180  
ggatttcagt cagcagagaa gaagcattcc tttatgggtgg aggagatggg gtacgttcgt 240  
taggaatagg cggtgacaag tcttgtttgc aaatccactg accatcaaca tcctttcggt 300  
aaccaaagga ggtaacaaca ccgacaccaa tggagaaaga ccttttaacc ttgacatatg 360  
gttaatcatc caaaggaaca ttgaaatgat gaagaacaag agtaaca 407

<210> 21045

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21045

tccgtgaaca tcaactcttc tgactncatt ttgtaaataag tttaggctat ctaccacttt 60  
cgagtatcga attaatagta tttattatct gttaaataga atgggtttttc aattccctgt 120  
gctcaagtac ggggtataatt tgggggacta attcccccttc ccattcaaca aaaaaaaaaa 180  
gtgcgagtaa agaaataatg cgctatatgc atccccattc accagagaaa aaaagggtac 240  
aagaatgtca ttaataatac gctatagtct tgatgcaaag catcatanat ngagagtata 300  
tttgagtga cgtcttgcaa ctttatngaa tgtgtaatga cgtgacttta tgtagaaaat 360  
tatcttaaga cttanatctg tttctttttt ttgtaatgta naaaaaaatc aacaatga 418

<210> 21046

<211> 576

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21046

actgtctaac acttaaccaa ntanacactg atcatngaag cgttaagaga gatagagaag 60  
gtnnnnnnnnn nnnnnaagag gatgaacgtg tggatacgct agctattacg cgcacctatn 120

<400> 21047

<210>	21048
<211>	449
<212>	DNA
<213>	Glycine max

actcaagctt atctgctcat acattgcctc ttcttttgaa aaacattnct ctacgagaat	60
ctcatccact atcatctaga gcttggtttc tgaatgacaa gtgataaatg acagtcgaag	120
caactttata aagcatgatt tgaatagaaa agtataaatg tatactaata tataatatta	180
ttatagegca ttaatatatc taacttataa ccattttatt atctctttta taatatactc	240
tcttctatct tcattttctaa cattaatttt aataaatcgt tctagaaaat ggттаатatt	300
taattatcgt tatatcatat ttaaattggt catcttcaat tcagaatata atgtatgaat	360

ttagaaatat ttagttaatta taataaagat ttaattatat aaaaacaaat atcgctctga 420  
 agaagcttaa ttgcaccta taccctatt 449

<210> 21049  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21049

agctttgctc cacaaaagtg atggtaattt ctctcttctt ttcaatttca attgtatgat 60  
 tatgggtctt tgggtttatg tgtaaggctt taattggaag acaagtattt gaaattgtga 120  
 gatgttggtg tttcttgctt aattgacttg ctctgcgaga cgttggttggtg tggattttaa 180  
 tcaaattact gtgagtttgt gctttctttt gtgctctcan gtagtttga gtaaggcaca 240  
 tgtgtgtgtg tctatatata tatatattaa tacttgctcg ggaatgtaat aacaggctcat 300  
 aatcatagat gttgcaattc atactatgat attaaataaa tagacataca aaaccagggg 360  
 ctaagggtgt ttctttctca aagaagcttc agatttggtg aaagtta 407

<210> 21050  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21050

tgacccttac gagtcagttt agtcaaagt ttagctaact atgagaaacc ttctatgaat 60  
 ctcanagt atcctgctaa gcccaaaaat ctctaattct caaaaataga tttaggactc 120  
 tccattcaa gaacgacttc tatcttagag gtagctacaa ctatacccc ttgagatatt 180  
 acatacccta ggaaactaac tttctctaac caaaactcac actntgacaa gttagcataa 240  
 agttgtcggg cctaagggt atgtagcaca atcctgaagt gttcttcatg ttctctctta 300  
 gtcttgaggat ataccaaaat atcatctatg aatactacca caaaactatc tangtaaggg 360  
 tgaaagactn tattcatgaa gtatataaac acacctggag cattagccac accaaaaggc 420  
 atgactagat actcatagt 439

<210> 21051  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21051

agctntttatc tgcagacata tcttgatgaa gcaatggaat cttatctgat tcttctgccc 60  
 ttgcttcctt tctgagggtt agattgaagc ttgggtgactt ttgcatctga caagagatgg 120  
 aattgtcggg gtttgattca gtactgagcc ttgttacact gtccttctgt tcataaccac 180  
 catttgcaaa tatagaatag attgaagatg gttcaatgga catggtagct gctgaagggtg 240  
 ttaattctgc cctgcagat gaagctgctt ttacatgttg tagatgttct tctcgtttct 300  
 canatgcttc atcatcaacc aagtccacag atggaactgt taacttataa gaaacatgga 360  
 tgtcaatggc aaagtatttg gtctcatttg ctagcttcca atctgag 407

<210> 21052  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21052

ntaagcatat atcaatccta tatatcctat ctctntaaat cttaacctaa cttataatat 60  
 aaatggcctc cataaaacat atagctggaa aacaactcaa ggatgtaatg ttagagtggg 120  
 gagtatttcc aaagagataa cttaatgga ttggctggaat gaccattagc ctgtaaaaaa 180  
 tttattggca ggcaatcatg tatagcaagg ttaaaccaaa cagttagtcc ttgtagtcta 240  
 ctagatttgt attttgggtc ctatagtta ttggcttctg atgagggaga gccttggaac 300  
 aatggtaaag ttactgcttt gtggcctaga ggctcacagg ttaaatccag gaaacagcct 360  
 ctccagtttc cacttggtgg tgtaaagctg tgcacatcta ccttcccan acctcactta 420  
 gtgggagccc catgtacttg gtc 443

<210> 21053  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 21053

agtttgtttc gaggtactta cccgttgaag atcgaagaac gatgaagaac gaatgaagaa 60  
cgtcgaagaa cgggttgaaac ctttgcgaga ttcttcacgg aaaacggttac ggaaacgttt 120  
cggaagcgcc tcggcttaga ttttcttcac ggaaacaatt ttcccaagca aattcgaaag 180  
agagagaagt gcctaagggg ctggaccctt tcttcttca tttctctccc tatttatagc 240  
agaatagggg aggtggttgc cgccagctc gccagggcga gctcagctcg ccagggcgag 300  
catggttgct tctccagaa gcaaccgctt tctggaggaa gcttctggag ggcccaagtg 360  
ggcctgggtg ctatntgcac ccacattttt actaagtaca ccc 403

<210> 21054

<211> 456

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21054

tataagaaca aaattgcctc aatcatttct taatatgcat gtgaattang acgcatcagc 60  
aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaacacac caaatgatta 120  
tgatgatgga tggctcanat ttcacaaag gtaaatcat cactttcaaa ttgagctttc 180  
aaaactatca tgacatgtag agaagaatca aggatttcaa gtcacaaaat gtcaagaact 240  
tttattttca aaacaattac ccatttcttg aacatttctt ataattcana gaaaaacatg 300  
caaagtcgta cgtgcacaca atattgacct aaaatattaa actaaaaatc tgacgaaact 360  
aacaacatta acaaattaac acaactaaca aattaacaaa accaacataa ctagcataac 420  
caaagaacac tcccncccc ccatacttaa acaaca 456

<210> 21055

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21055

agtcttacct tctggctctc ctcatagttg gtgcatgaga aaacatgctc tattttcatc 60  
tcccactcca cgtaggctc cggtatcttc ttctcttaa atggaggaat gttgagttta 120





tgtatgttat tgtataaaag atcatgggtt ctccacctt

399

<210> 21058  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21058

tgtatttcag tatcttattg atcagttatg ccaaatgcct gtattggcct tacctgattn 60  
tacaaagact tttctagtg aggtggatgc ttcaggagtg ggggtcggag ctgttctcat 120  
acaagatcac cattccatag cctttataag tagaagctta aatgttcagc aacaatccat 180  
gtcaacctat aagaaagagt tactagctgt ggtgtttgtt gtacaaaagt agagacatta 240  
cttattacct aagcagtttg taatcaaaac tgatcacaaa agtctcaagt atattcttga 300  
ccagagactt tccacagctt tccaacaaaa atggttggtg aaacttatgg aatttgattt 360  
cattattgaa tacaagtagg gaagtgagaa ccaagctgct gatgca 406

<210> 21059  
<211> 401  
<212> DNA  
<213> Glycine max  
<400> 21059

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aaatttcaat ggtggagatg tgcaaaaatg ggttccaaag gtggtatcga aatttcacga 120  
caatccaaca gttgacgagt ctgaaatcgt agttttacga agacagggtt tgggtctctg 180  
tggaanaaga gaaagctacg atacgaatga catttctctc acctcagata atatttcgca 240  
aattccaaca atgagaatgt tcgaaaatga gttctgaaag gtgctcaaatt tcatgatga 300  
tccaacggtt aacgagttcg ggatcgttat ttactgaga cagggttgag tgtatgtggg 360  
aaaaagagag gatttaagag aagaagaagg aaaacaaatt g 401

<210> 21060  
<211> 458  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21060

tctagctccc aacaaaagggt gtttagtctc tcataaccat gagaggcttt acttgatcatg 60  
gatgactaac aacaagaaaa aaggagaatg tcgaaagcga gaggggtttct cctaagggat 120  
agaccccggtg tgtgggttgt gagacggtgt gtattttcct tctgttttct ctctcctcct 180  
tatataggta gcttacttac ttgcactta gtgcaggcat tcacgctaaa cgcgcctttg 240  
ggcttttttcg tgggccttat gcgtgcttag catgtaacgc gctaagcctg gagtgtaggt 300  
taagcctaga gtgagtgtta agcctccaac gtgcacttag ccaaaattga cacttgaaat 360  
aaagatgtca atttttcctt tcagaatttt ttcttccaga ttntacatca aactttctca 420  
tttgtntaa ttaattcaat ttaagggtat ggcagtat 458

<210> 21061  
<211> 416  
<212> DNA  
<213> Glycine max

<400> 21061  
agcttattta tatcgaggcg ctcgaaattg aacaacggaa gctcttgaga aattcaaattg 60  
gtcataactt ttaactcgga tgtccaattc atgcgcatca catatagaga cgctgaaaaa 120  
tgaacaacgg aagctctcca gaagttaaaa tggtcataag ttttcacact gatgtccgat 180  
tcaggcttat attatatcga gacgctcaaa atttaacatc gaaagctctc gagaaattca 240  
aatggtcata acttttcact cggatgtccg attgcagcgc attacatata cagactctcg 300  
aaaatgaaca acggaagctc ccgagaaact caaatggtca taacttttta cactgatgtc 360  
cgattcaggc ctataatata tcgagagcgc tcaaatataa caacggaagc tcttga 416

<210> 21062  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21062

agcttatgcg catatttccc tacgaacggt cacttgacac agacatccta ttaactttga 60  
aaaatgcacc catatacaat caaggtagct tcattaccta gattatttac atgtacttcc 120

aagggtgtatt tgttatttac atcacacacg cctccttggc taaatttaca tacatgcata 180  
 ctcaaagcat ttcggggtac caaaaattgc acatgcgctc atcttggtat ttctaatacc 240  
 tatacatata aaaacttcat gatgaatctt gactacctac gcaataaggt gctacatttc 300  
 atgctttttt ttttcaagtt tttgctacct aaagccacat gaaaattcaa gcatattttc 360  
 ctttgctgac taaaattgta ttcaaattag aaggatatata tttttttgta atatgttttc 420  
 ttcacataac atgcaacaca tttatatata tnttttgtga gacat 465

<210> 21063  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21063

agcttgtatg attatggggg acccatcata tgtggtacta ggtggcgatc aggcgatggt 60  
 gcaagtcgac tttccacatc caaaaatcac acataaatcc accatcccca gttgcccacc 120  
 ttcaattgag ctacgtact cccatgtagc ccttatcctc gttcctctca acaccgggctc 180  
 cccatcaatc cctccaagct tccacaacat ccaaacatca tgaactatca aaaccaagca 240  
 aaaacagggc agaggtagaa atctctgccc aaaacataaa ccaataccac agtttttctt 300  
 actcaaatac cccagtaaca ttcccttcgt tccaattcgt tcaccgttgg atcgactcga 360  
 aaattttact ggaggtccct agtacataag tctacattnt gaccgctggg atctg 415

<210> 21064  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21064

ntgaaganat aggatacgaa tectacatgc atccattcac actttctata aaaagcatta 60  
 tgtatattct tggaaagttg gaaacactct caaaacacct tgtatatgct aagagaaaag 120  
 actaagagct tagctttcat atttgtttgt aagacaatta agagttagtc agtgagaaaa 180  
 caaacttcaa atcttttgat ttatttttag ctagcagtga cttggcagga caaagaatat 240  
 tgggtttgtt caagcttggt aaaaatggaa gaaaagaaaa ccttcacgga tttgctcacg 300

gaaatgtcga anaacttacc cgttgaagaa cgaagaacga acgaagaacg aatgaagaac 360  
 ggtgaagaac gacgaanaac attcacggat ttgctcacgg aaatgtctcg gaagcgttat 420  
 ggaagcacct cggcttggga tttcttcacg gaaacaattt 460

<210> 21065  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21065

agcttgaagg catgtaaccc accatcttgt catagtagaa cactagtaat gtgtccacta 60  
 tcattgttat catttccttc tccatcggtg ggggtgctac ttaagctgcc agatccctcc 120  
 acctttggac gtattctttg aaagattcat gctccctttt gcacatgttc tactactcca 180  
 ttctatccgg agccatatca gaattgtact aatactgcct aatgaaggca accattaggt 240  
 ctttccaaga acggacctga gaaggttcca tattattata ccaggggatg gctacccag 300  
 taagactttc ctggaagaaa tgcatacaaa atttttcgtc tttcgcgtat gccccattt 360  
 tcctacagta catgttcagg tgattcttgn ggtaagtagt tcccttgtac tta 413

<210> 21066  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21066

tccatcagtt ntgatgatgc caaagctcan agagttgttt tatgattaaa gaatcaagca 60  
 ttcaagattc cactcaaaga ttcaagaatc aaataaagaa atcaagaagc atcaagccaa 120  
 gtcaaaatag gtagtaaaaa gtattttttc aaaaaacatc aaatagcaca ctttttgttt 180  
 gaaaagtgat tttctgaaat cttctaagtt accagagttt ttactctctg gtaatcgatt 240  
 accattttat agtaatcgat taccagtaac caggatgggt ttcaaactgg tttcaatgct 300  
 ttgtaacggt ccaaaatgat tttcaaatag tgtaattgat tacactatat taataatcga 360  
 ttacaagtga atctgaacgt tggaattcaa atccaattgt gaagagtcac agctnttcat 420  
 aaaatacatt gtgtaatcga ttacactatt atggtaatc 459

<210> 21067  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 21067

agcttctggt gggacatctt gactagcttt ccaatctgac attcaccaca aattctgcct 60  
 tcttctatatt tcagataggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120  
 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac tttcttggag 180  
 gatagacatg tggaggagta actggtttct tgagggtgcc ataggtagca gatgtgcttt 240  
 gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300  
 gtgaagttta cattgaatcc ttcacacac agctgactga tgctgatcaa gtttgcagtc 360  
 agtcccttca ccagcagtac tttgttcaga ctaggaagtc catcatgagc tagct 415

<210> 21068  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 21068

tgtaaagaa cttaaaaaaa atcaagaaca agcttggttcg ctcatgttc gcgtgtatga 60  
 cattcactcc acaaggtttg aagtagagga gaccttcaat cctattacgc aacgtggcgg 120  
 acaaaaatgg gcagttaact tgaatgggtca ttattgtcaa tgcggaaggt attctgcgct 180  
 tcactatcca tgttcacata ttattgcagc ttgtggttac gtgagcctga actactacca 240  
 atatatagat gttgtttata caaatgagca catcttaaaa gtttactccc cacaatgggtg 300  
 gcctcttgag aatgaagcgg ctattcctcc ttctaagac gcattggacac ttatccctga 360  
 cccaactaca attcgtgcg 379

<210> 21069  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 21069

atcttatctg ataaatgtat ttgtatgcat aattaatttc atgcaatata tttatgacta 60

tatattctaa aatataaatt gcattggttaa tatattaaaa tgtagaatgt ttgtttttaca 120  
 tgtcatggaa attattttata actaaattta tactaaattt ttcggcaagt ttttctgaat 180  
 gcatatatac taacattgtc aatcaaaaat taatctttca tcttggttaa aagtgttaata 240  
 ttaaaaatat atttatagct aaaaaataac tttgaaagtt tggtgttgtc ttacaaacaa 300  
 tgctcaaaag aaataaaaac gagagaatga aaataaaatc gaaaatagtg aagggggaat 360  
 attcatttga tctggaaaat attactacta ctatta 396

<210> 21070  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21070

tgatagtgtg tttgatttgt ggtgtggtga aagagaaata attattnttt cacgttaaaa 60  
 aacacaactc tttgtagctt caagattttt aggggtgaaa tttgattatt tttttttcag 120  
 tgttacgggtg aaatgtacta aatagttttg taaatagtaa atacacatca acatcacgtg 180  
 gctgatcacg tgacctctct gaatttctctg tccctctttc ctgtttttca tcaaattcca 240  
 aggctaagac agtacaaaat gtagcagtta cagcacgtga tcccaaaggc atcaaattcca 300  
 aattttcaga tattttaccat ttcactttca gattgtacta aaaagaaaga ataaataaat 360  
 gctgatttca cttgaccctc attggcttga aggctcttaa gtaatgccac gggcactaca 420  
 cagaatcctt caccacaaca atg 443

<210> 21071  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 21071

agcttgtatg attatggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60  
 gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgcccac 120  
 ctccaactga gctcacgtac tcccacgtag cccatatact cgttttctctc aacaccgggt 180  
 ccccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattca tacaacacaa 240  
 gctatcacag ccaagcaaaa cagagcagag gcagaaaact ctgctcaaca catcaaccaa 300

aatcacagct tttctcacgt aaagaccaca gtaacaattc cttcgatcca attcggttaac 360  
cgttggatcg actccaaaat tttactggaa gtctatagtg cataagctta catt 414

<210> 21072  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21072

tcatgatgat gaatcaagtt gattcaagta gttntgatga tttcaaagat gatgacaaaa 60  
agcccaagag aatgatttca agattgagtt aacaagtttc aagaatcaag agaagtttga 120  
tttcaagaag aaaagatgaa ttcaagattc aagtgaagaa atcaagaaga cttcacaagg 180  
ggagtattga caagatTTTT caaaaaaca acatagcaca gttttgtttt tcaaaagatt 240  
ttttctcaaa attttctaag ttaccagagt ttttactctt tggtaatcaa ttaccagttt 300  
cttgtaatcg attactagtg gcaaagtttg atttcaaaag cttttaactg aatttgcaac 360  
gttccaattg ttttttaaatt ggtgtaatca attacaatat attggtaatc gattaccagt 420  
gtatctgaac gttgaaattc 440

<210> 21073  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 21073

agcttcattc atgtatccac gtagtagtcg tgcaggtacg gtggcgtctt cctgggtgcgt 60  
actggcctcg aggtggttac tggtatcgac ggtgaagacg gtgcctgtga ggtgccggtg 120  
gtgctgtcgg tgggtgctaac agtttggaat ttcaacagtg ttgccggaac aaattccgca 180  
gctttactcg cagatgggag tatatgttag aggaggaaag atgcacaaat ggaaaattct 240  
gttttggtac gtgacgttat agtgcatttg gaatctgagg aacaaaattg cttttagaga 300  
tgctgatgta gagataggtc atcttttaca ccgcatgata tctatatctt gacaatgcgt 360  
tttgatatagg aatgggtcta aaccatgata ttctctctct gatt 404

<210> 21074



<211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21074

tctatagaag gttegttcct aatttctctt tctttggatc ttctctcaat gagctggtga 60  
 agaagaatgt ggcatttacc tggggtgaaa aacaagagca agcctttgct tttctcaaag 120  
 aaaagcttac taaggcacct gttctagctt ttcttgactt ttctaaaact tttgagctag 180  
 aatgtgatgc ctctggagtg ggagttggag ttgtattggt acaaggtggg caccctattg 240  
 cttatttttag tgaaaaactt catagtgcc aaccttaacta cccacctat gataaagagc 300  
 tttatgcctt aataagagcc ctccaaactt gggaacatta ccttgtttcc aaggaattng 360  
 tcattcatag tgatcatcaa tcaacttaagt acattagagg gcaaagcaag ttaaacaaga 420  
 agcatgcaaa atgg 434

<210> 21075  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
 <400> 21075

agcttattca tgtccatggt gaactgatga tgatgatcct ctaaccattg tctccattg 60  
 ctctcaaagg taccctaaaa aatctcatgt aattctctaa tgtatggggt gcggatttgt 120  
 taagcattta agattctgcc atttagaaaa agtaatcata tgtggtgcct gttctattga 180  
 tattttatctt ccataccata atacattaag acttgcggtg tctagtgcc taagatgcta 240  
 tgtatacatc ttttcaattc cttttccaat ttgtgttata ttgtgagatt cgagtactta 300  
 atggtgattc tgaatattca gctttaactt catagcaaaa ttatcatctg cgtctttcta 360  
 caaccgtctt acaatcctaa 380

<210> 21076  
 <211> 300  
 <212> DNA  
 <213> Glycine max  
 <400> 21076

tcaaacttgc aacaaaggag ttgagcatgt ataaagattc tttcttcaac ttttagaggt 60

gactttgagc gtctgtttat ggaggagtcc caatcaattt ctgattattt ttctcgagta 120  
 ttggcccgta tcaattaact taaaagaaat ggtgaagacg tttatgaagt gaaggatcatg 180  
 gaaaaaatac ttccaacttt acatccaagt tttgacttca ttgttaccaa cattgatgaa 240  
 aacaaggatg taaagaccat gactatcgag caacttatgg gttccttaca agcatacgaa 300

<210> 21077  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 21077

agcttttcat ataactttac ctctgctgta ggctacttat ttgggggaaa aaatgataaa 60  
 tttgaagttt tgtatgtggt tgtgtatgga atttgtaatt tgggaatttg tagtctttta 120  
 ttgtgtgttt ggtttttagta ggattttcta gggatcatgtt caataccaat taatttttca 180  
 catgttttagt tccatgttga gaaattgatt gagcccagaa ttgatgagtt taagcaactg 240  
 taggtagttt tttttgcgtt ggttcaagaa ttttatattg agttttacta ctaatatctt 300  
 ttataataaa aacatccaaa cataacttca aaatcatttt tccaacgctc atccaaaatt 360  
 cctaattttc ttactgactc ttaaggaatg agaatgaagt ttatgatgat t 411

<210> 21078  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21078

tcaagaaaaa gatggcctca gcaaactcct tatttccaga ttggaattct atcaatagac 60  
 ctccaatctt taatggagag gggtaccact actggaaaac ccgaatgcaa atttttatcg 120  
 aggcaataga tctaaatata tgggaagcca tagaaatagg gccttatata cccaccacag 180  
 tagaaagagt ttcaatagat ggtagtcat caagtgaag cataaccata gaaaaaccta 240  
 gagatagatg gtctgaagag gatagaaaac gagtacaata caacctanaa gccaaaaaca 300  
 taataacatc tgccttagga atggatgaat atttcagagt ttcaaattgc aagagtgccta 360  
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatggt aaaagatcta 420

<210> 21079  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 21079

agcttcattg cctaacaagc caacttaca cagctagccc caagagactc agcataagga 60  
 tgcacagacc aaagttgcgt atgtaaaaa attgtatgac caagtgaagg tgcaaattgc 120  
 aaagaagaat gaaagctatg ccaagcaagc ccaaagaaa aggaaggaag tggacttga 180  
 acccggtgat gatcttggac atttgaagac aaatgttttc caagaaggag ggaatgatga 240  
 gaatcatgaa acaggccaaa tacagtctaa aggcccaagt ggagaacgac gaacgcccaa 300  
 gtggagaatg acaaagcccc cgagtggaga atgatgaatg cccacgtgga gaatgatg 358

<210> 21080  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21080

tcattgccta acaagccaac ttacaacagc ttgccccag atactcaaca taaggatgca 60  
 caggtcaaag ttgagtatga gaaaagattg tatgaccaag tgaagggtgca aattgcaaag 120  
 aagaatgana gctatgccaa gcaagccaac aagaaaagga aggaagtggg acttgaaccc 180  
 ggtgatgatc ctggacattt gaggacaaat gttttccaag aaggagggaa tgatgagaat 240  
 catgaaactg gccaaatata ggctaaaggc ccaagtggag aaggacgaag gcctgagtgg 300  
 agaaggacaa agaccctgag tggagaagga tgatagccca agtggagaag gatgaaggct 360  
 caagtgtaga tggatg 376

<210> 21081  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21081

agcttgtcaa tactttntac cttatgtttg gctctaattg agacatggaa gtacgcatta 60  
 ttttcgtccc ccaatttgag ccagtcaagt ttgatctct gttgtagaat ttcctcatca 120  
 atctcgttcc acctaatac agtttttgta cacatatcca ctttatcaat tttctcttta 180  
 ttcacctcgt catttacaag cgagtcttga gcttcagcaa gatcttcccg agctttggcc 240  
 agctggagtt tcgtatgagc aaattgtttt gacaaagtac ctaaaaattt tcttaatctt 300  
 ttcaatttct tccacatcgc taccatagga ctaccatcaa cagggctatt ccaactctat 360  
 gcgacagcgt catcaaaacc tggcagcttg gtcacacaat tgagaa 406

<210> 21082  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21082

tgtccaatgt actcttgtgc atgacatcaa gcgacgagcc tttgtcgata agcattntgg 60  
 ccacgatgtg gtccaaacac ttgacggata catgtaaggc cctattatgt ccccgaccct 120  
 cgacgggtat ctctcattg gcgaacgtga ggtaattgtt ggacgtgata atgttgatga 180  
 ttcttccaaa gccttccaca aagatgtctt gggctacatg ggcttcattc aagattttga 240  
 ccaaaagcgc ccgatgaggc tcagaattca tgggtagttc caacagggag accctagttg 300  
 gggttttatt gagctgttca attaccttga actcgctntg ctggatgate cgaaagaact 360  
 catttgcttc ttcaacggat attntctttt tgttgaagtc ttctctctcc tttgcaaacc 420  
 tcccagtcgg gatc 434

<210> 21083  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21083

agcttatgtt aatttggcat ggaaggtaca aggctggcgg cttaagggtc aagcaaccca 60  
 agtaagggtt ttaggcccaa aaaaaaaaaaag gtccaaattt ttttagtac taatatact 120  
 caaaaaaat ttattgtaaa attatatttg aaaataaatt ttaattaaaa tattataagt 180

atctgttact ctttttattg atacgcaagt aacaattaat gagcaacaac ttttcatcaa 240  
tatcatagtt ttgttcaaaa aaaagaaatt taacagttaa tagttaaaga aatccaaaag 300  
tttttctttc atttctattc tctttattgg ctttctattc aattntaatt catttcttct 360  
ttctcaatgt ctttcatact tctttgtctt cacatgttga cctccttaat tatat 415

<210> 21084  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21084

tgcataagct attcatataa ggtatcttac agaacttgta taaataagtt attaacatct 60  
tatatatgga ttagttataa cataagtttg taagttctcg ctaacacttt cacaaaaact 120  
taacatatga tcttagtcat aaaatattgt taactcattg acaagtgtac cgatttgtct 180  
caagtagtaa agtactcaga agtctgagta tcgaatccac aatgactttg tttgtactta 240  
gattgatgca aactcaattt acaagtaaga gataaagaat ttaaaataaa agataaagaa 300  
agatagaaga taagatacat atttaaaaga aaagataaga gatttaaaga taaaaaatta 360  
gaagatagaa nagataaaaa aatttaaatt aaaagatgat aaagataaaa aagtataaga 420  
taaaatagat aagataagta aaagataaag ataatga 457

<210> 21085  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 21085

agcttatctt tatatttaaa aaacattgat agaataatac cagtacatta ttaatttgaa 60  
taaagacgc atacatgaca ttgattgaca taatacatat tgtacgagga tctaaagaaa 120  
ttgactaaag tggcgtaacg cagttgcagt cacaagtagt tgattatctt tatattcgaa 180  
tgggcctgac cctgacatgc acgccacatg catcattagt tcataacatt tgtttgcaa 240  
ctattaatca cagtattgtg gccaggacca tgcatagtca cacatcagca tatatctcat 300  
cttcgtcaac ccagaactgg attcctcgac ttacctttta aaataatctg catcatcgat 360  
ttatatattt 369

<210> 21086  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21086

ctcaagctgg ttgganaagg attaatatc attaacctga aaaaagtctt ttccttatta 60  
 taagtgtttt ctccaactcc taatgatcaa gaaagagacc ggaagagtag tcaaataagt 120  
 aaaatcttat tttttttctc tttcaagaag ttaaaacgca ccagaaaaaa gtctcactat 180  
 aaaaaaatat acatattggg tatctattat ttttgagaat cacatatttc aagatcttac 240  
 taatttccta taattgttaa tcttcaaaac ccttaaaacc cttcaagaca tgtataagag 300  
 gtgagtctct gcaccacatg aatcgtgtaa atctatgcc acatcaattt aaatataaat 360  
 atttcaattg caatgcatgc cgaacagcaa tatcacctaa caaacacgtc tgatccacag 420  
 ataaagatac tagggttgcc taattctcta catttcaatg acc 463

<210> 21087  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 21087

agcttgccca gagaatgagt ccacggagga aatgcttacc acctcaaaag actggaaagc 60  
 ggtttctaata gactcctctg cggttccac ataaggcata gaggatgggc agctcaccaa 120  
 gatgtcttct tcgctgata cgatgaccag atgcccttcc actacgaatt tcaacttttg 180  
 gtggagtgtg gagggaaaca cccctactga gtggatccac gggcgcccca acagacagct 240  
 gtaggggggg ttaatatcca ttatttgaa ggtgacttga caggtgtgag ggcctatctg 300  
 tactgggaga tcgatctctc cctaacctc tcggcgggtg ccgtcgaagg cacgaaccac 360  
 catagaactc ggctttaagt gggaagcatt gaatggtaat ttct 404

<210> 21088  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
 <400>        21088

cgattcaatc tatgtaccgc tagtggtcca cattgtgttt cgtgcatttt tattctcggt    60  
 ttgtttactt tntatacccc ctcttgacgt gcttgagcca ttttacttaa gtcatttctc    120  
 gcttaactta aaaataaaat aaatttccac cgaacttttg aattgtatta tccattaact    180  
 tcgggttaaaa taaattccga ccgttcggtc gtgccgtaac cacgttggaa atcaaaaaga    240  
 ggtaaaaaat aatataataa tcaaaaagac atctttagta aaataaagcg aaaaatcaat    300  
 cgggcgttnt ctctttggga tttctcattc ttaatcgaat tgattaataa ctaaagtga    360  
 actaaaggct aaaatcaatt cgcctagtca agctcgtcca taaaaatagg gctttgaagt    420  
 ttgtcatttc attntctcac taagtaaaat ggat                                    454

<210>        21089  
 <211>        414  
 <212>        DNA  
 <213>        Glycine max

<400>        21089  
 agctttgcct ttatggcttg tacctcatca ctttcttccg aagctttaac ctcatcgtct    60  
 ctcacagtct ttagatttgg gagccaatcc agtccttggtg ttccgactct cagccactta    120  
 tgatagccgc cgatgatccc attactgctt cccctaagct ctctgtcctt tcttcacgct    180  
 gcatcccatg ccttgcgaaac tccttggagt accctcgcgt tgtggtcact gaaacctcgt    240  
 gcgatgaaag gcgtgatgct ttccgtataat ggcgcctctc tcatggggta gccaaagtgt    300  
 cttatggtga gaacgggatt ataattaata caacccttg ttcccatcaa gggaacattt    360  
 ggacatcctt cgcatagaaga tagaatcttg attcttcctt ccttctagcg aggg            414

<210>        21090  
 <211>        467  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        21090

actcaagctt catgattgaa tcaagattga ttcatgatga tgaatcaaga ttgattcaag    60  
 gttttntgat gataacaaag atgatgacaa aaagcccaag agaatgactt ccagattgag    120

tcaagaacaa ttcaagaatc aagaatcaag tttcaagttt caagaatcaa gaatcaagaa 180  
ccaagaataa tcaagatcaa gattcaagac tcaagattca agaatacaaga aaagactcaa 240  
tcaagataag tactaaatct tttttcaaaa cattgagtag cacatgaagt tttcacaaaa 300  
gctttttacca aagagttttt actctctggt aatcgattgc cagttttactg taatcaatta 360  
ccagtagcaa agttttgtttt caaaagcttt caaactgaat ntacaacatt ccaattaatt 420  
tcaaaatggt ctaatcgatt acaagattnt ggtaatcgat taccagt 467

<210> 21091  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 21091

agctttttatt tagtattcaa ttaatctatc ttgcatcatg tcagcccact ttggacttaa 60  
agtgatcatc tcagttacga ctctatttct aagttataaa ttataccaca gtccacataa 120  
ttcttagtta agaaatacga atattgaatc atttgtgtca ataactttta ataatcata 180  
catttcaatg cagacctaga ttgcttttac aattcaagta tttcaagtaa cattgttcga 240  
aaagtgggtt acggcctcaa ttacgcttgt aacttcacaa tattgtggct ttttcagtca 300  
aaattgtgac ttttagtgtc tctggccgca agttaaacc ttatttgttg ctaggttaag 360  
ttctatggat ctgactagca ttactttaat gacattgatc atgcatg 407

<210> 21092  
<211> 366  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21092

tactcaagct tatgccacgg aaatgtaatt atganatcga gatgcccgct tttcaccatn 60  
ctctagttaa ccatgcatgt aagtaccatg ttcaattatt ttgttttgtt gctgtgaaac 120  
gggtttatga tcccaacatg gttggctcat ggtaccgaat atatgcaacc aagaatgcat 180  
catgaatctt catgttccc tttttttgtt tttcgttttg tagaggaaaa tgcagtgttt 240  
atgcatgaga aaacatgaat acaaaacgta tgcagtttgt agaacaacaa gtatgttgaa 300  
cgcatatgca tgatgatgct atgactcatg caaaatgcga ggcttgaata tgataacgga 360



caaatg

366

<210> 21093  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21093

ttcaaccaat gagattgttc gaggcctgat ctttctccta atcatgattg ctacacccgg 60  
aaccaatctc gaaacaaagc ttaacctttg aacgccaggc gaagcaacct tgatcgaaag 120  
acaaatatga aacgtcctcg aatgactgag aaccgacccc gcgtgtatcg tccccagtag 180  
cataagtcta aaacacttga cacgcacagt tagaaaaaca ccaacacaaa tgtcacaact 240  
ttacgaactt gctcgcgttg aaaaccctta caaccaagag atcctaatat taacctatca 300  
ggccccaacc ccttngattc aacacaacat gccattgaag cacgaattga acaataata 360  
gtgaataacc actggtatta tctagcactc cttacaaaca tgcg 404

<210> 21094  
<211> 424  
<212> DNA  
<213> Glycine max

<400> 21094

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ttaatagtta gtctatattg cttagaatgg atccatccaa tatggcaaga ggtgtgtacg 120  
gtgaaatgct ctgacatttc caaaatgaag acattggagt ctctctcata caaagcacat 180  
tggttaaattt tcaaactcta aagtagatgt tctcgaccag aacatcttgg ggtatgcttt 240  
caggagattt catcatacat agcacacatc tctcatctat tgcccttaaa gctaaagaat 300  
caccagatga ttttaataat gaaagtgggtg aaattgatga actttccatc ataaccagaa 360  
gcttacacaa gatgttaggc aaaaggghaaa tctactacacc agtaatgcat tcaagtatcg 420  
cact 424

<210> 21095  
<211> 392  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21095

agcttatagc cttttcaaac gacaataact ttttactcgg atgtctgatt gagactcgta 60  
atataacgag atgctcgaag ttgaatgttt aagctttgag ccaattcaaa cgacaataac 120  
tttttactcg gatggttgat tgagtcctgt catatatcga gacactcgaa attgaatgtt 180  
gaagctctga gccaatfcaa acgacaataa ctttttactc ggatgtgtga ttgagtcccg 240  
tcatatatcg agacgctcaa aattgaatgt tgaagctctg agccaattca tacgacaata 300  
actntttact cggatgtctg attgagtccc gtaatataac gagacgctcg aaattgaatg 360  
ttgaacctct gagcacattc aaacgataat at 392

<210> 21096

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21096

taaacattca acttcgagcg tctcgatata ttacgagtct cattcaaaca tttgagaaaa 60  
aagttattgt cgtttgaatt tgctcagagg ttcaacattc aattttgagc gtctcgatat 120  
atgacgggac tcaatcagac atccgagtag aaagttattg tcgtttgaat tagctcagag 180  
cttcaacatt caatttcgag cgtctcgata tgtgacggga ctgaatcaga catccgagta 240  
caaagttatt gtcgtttgaa tttgctcaga ggttcaacat tcaatttcga gcgtctcggt 300  
atatcacggg actcaatcag acatccgagt ataaagttat tgctgtttga atttcctcag 360  
agcttcaaca ttcaatnttg agcgtctcga tatatgacgg gactcaatct tacatccgag 420  
t 421

<210> 21097

<211> 410

<212> DNA

<213> Glycine max

<400> 21097

atctttaaca tagaaaccta gttagattag tgctttgaca ggtttgataa caagaacata 60

tttgtggggtt tgacaagaac tatatacagc tcatgactat tctccaaccg agcaccactt 120  
 ggaagggttc tacacccaat gagagtcgag gttgtgttga ttgccaagct tcaacataga 180  
 aacctagtta gatttttggg ttactgtgtg gaaggagaag aaaaaatgct agtatatgaa 240  
 tatatgccaa acaaaagctt ggatgctacc attatTTTTT gtaagactat ttattgcatt 300  
 tgaaatattt tgtttacgtg ctttttttgg tacactcaaa attctatttt gaagtagact 360  
 aatgtaatgt atcatgcccc taatgaacta caagactgaa agttgtgtgt 410

<210> 21098  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21098

tgtctcagcg tttatgcgag acggagacca tcatgctagc tatcatcgcc aagtaccaag 60  
 aagagttagg tctagccacg gcccacgagc atagaattgc ggacgagtat gctcaagtat 120  
 acgcggaaaa agaggctaga agaagagtga tcgactcttt acaccaagag gcaaccgtgt 180  
 ggatggatcg gtttgccttt accttgaacg ggagtcaaga acttccccgc ttgttagcca 240  
 aggccaaggc gatggcagac acctactcca cccccgaaga gattcatggg cttctcggct 300  
 attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag ggaacttgta 360  
 tgggtctctca gaccttgact agatacgact tcctttttga aataaaatga gttggtccca 420  
 tgtnntctac tccaaaaact t 441

<210> 21099  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <400> 21099

agctttattg tctaacaagc caacttacia cagcaagccc caagagactc agcataagga 60  
 tgcacaggtc aaagttgagt atgtgacaag attgtatgac caagtgaagg tgcaaattgc 120  
 aaagaagaat gaaagttata ctaagcaagc caacaagaaa aggaaggaag tgggtacttga 180  
 acctggtgat aatcttggac atttgaggac aaatgttttc caagaaggag ggaatgatga 240  
 gaatcatgaa actggccaaa tacaggctaa aggcccaagt ggagaatgac gaaagcctaa 300

gtggagaagg acaaagcccc cgagtggaga atgatgaagg cccaagtgga gaaggatgaa 360  
 tgcccagagg cagagacact atcaagacaa ttaattgttg ctaaa 405

<210> 21100  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21100

nttcgattca ttctatgtac ccgtgggtgt ccacattgtg ttttgtgtat ttttattctc 60  
 gnttcattta ctttttatac ccccttttga cgtgcttaag ccattttatt tatgtcattt 120  
 ctcgcttaac ctaaaaataa aataaatttc caccgatcgt ttgaattgta ttatccgtta 180  
 acttcgggta aaatgaattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240  
 agaggtaaaa taataatata ataataaaaa aatgtctttt agtaaaataa agcggaaaat 300  
 caatcggacg ttttctcttt gggatttctc attcttaatt gaatggacta ataactaaag 360  
 tgaaattaag gctacaatca actcgcctag tcaagctcgt ccataaaaat aagtttttga 420  
 agtttatcat ttcaatntct cactaag 447

<210> 21101  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <400> 21101

atctttgaaa tggaggattg gggaaatttt ctccatcgaa tccttaagga ggattctaag 60  
 gattccgctc cgattaaaat gttcctcttg gtgtgggggt ttggtggcaa gcaacggcag 120  
 ctcgtggcgg ccaccggtgg tcatgggtgg tggagaaaga ggtgttaggg tttgggtggt 180  
 gttttggaga ggaagagaga gtggaaatcg tgtttttcac actggagAAC aaatttataa 240  
 tctacagatc tcgcttagag agctcgtctc gctaagcgga agtccacttt tcgtgcttag 300  
 caccacaatt cgagcttagt gcaactccct ctactactaag tctcgttag ctggccaatt 360  
 ctcgctcagc gtaattccct ctcgggttgg aattatactt agcgcgcccc tg 412

<210> 21102

<211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21102

tttgtttgga attcattntc aattacctct tagttctgaa cgcattgataa taatatgtac 60  
 caaaagcata caaagcatga taatatgttg gacagagctc ttcataatatt tgcttggtgt 120  
 aaattaatga aaagttggtg cgtttggtta agtggtttatt aactagattt gaaattattt 180  
 gattntatat atganattga tttttatttan aaatgaaatt aaaataaagt gtcattgttta 240  
 taaatattca ttntaaagta agtttatatt acaacttaat atgattcttt aacttanaat 300  
 gaaaatttta tttagagaat aaaatatgga gttatagtca tgcattaana gttaataatt 360  
 taaattaatt catatattag agagtgtttt gaattgtatc aatattgggc agcggctgan 420  
 aatgaaaaca 430

<210> 21103  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<400> 21103

agcttggtgt gagaaagtat ggaagagtca gtcttcctat ttttgtttgc tgaccacaga 60  
 gtggtacctg gagatatgtc gcgggggtca tgagaccttg gggacgtcaa gtggggtgct 120  
 attgccc aaa accaagcttg accaatcccg acccaacccc ggcatagtca gtcagtgaga 180  
 acctttgatg tacctaaaca tgcaagctcc tggcagtcaa ctaataaaag aacaaagtcc 240  
 acaaagcaac gaggcttggtg tggcggctgg ccaactacga atcttgagtg gtatctggaa 300  
 attggcctct ggtaatcgat taccaacggt gtgtaatcga 340

<210> 21104  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21104

tgagaaatat agtgaaagtt gaatcgaatt atagagtttt catacatgtc cttgaaaagt 60

tccttaaatt ttttttcaa ttaggcctg aacttctgtt tattnttaat taaatttgtc 120  
 attgaccata gtcaacatat ttaacaagga cctaattaaa gaaaaaaaaa tataagttag 180  
 ggactcaatt gatttttttt attaaaaact taattaaaaa ttatcaaata attcggggat 240  
 gtgcaaacta atttaacttt tttttaactc aaagatgcct atatcatttc atcgaagata 300  
 ataaaatcaa tacatgaagg gactacatta aaaatacaat aactaacatg aaattaaata 360  
 ctttaataag tgaacgagcg acttaatttg tttgtctcta aatgaaaaaa ctntaagctt 420  
 tgaacttgca at 432

<210> 21105  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 21105

agcttttact ctctatgtct ccattatcca gcaatatctt ggctctttta tttggacatt 60  
 gagaagcaat atgtccaact ccttggcacc tgaaacattt gatcatgag gatctagaag 120  
 atgaattaat ttccatttta cctttaggtg tagcaaatga atttttggac ttagcttcat 180  
 ctttttgact ttgtcacaga tttgttgttt tgccaatttg acttcacaa agaagtggaa 240  
 gcaaatttgg aagtactatt agctttgcat tgcttttcca cttgaataga tttgtgcaac 300  
 aagtcttcca tctccacata atgtacaat tctaccatat tagctatctc tttctttata 360  
 cctccaatga atctggccat agttgcctca cagtcttctt ca 402

<210> 21106  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21106

ntanacttga tattggatag tttacaatct gcattcagat ttaaaagtcg tagacaatca 60  
 acttccgaag aagaagagga ggaggagtat tcatgtgcaa gaagacatgg aagaaggcaa 120  
 agaggtgaac caagaagaga taatcatttt gggagcatta agatggcaac ccctatgttt 180  
 caaggtaaaa attatcctaa gttgtatttg gagtgggata gaaagtttga acatgtgttt 240  
 cattgccata attatttttg aggaaaaaaa tgttaagcta gttgttgaat tcaccaatta 300

tgctagtatt tgggtgggatc accttatgac tagtaggtgc tcatcatagc ctccatcatt 360  
atggccattn tctctttcat ggccttcac attatggcca tttctcttt catggtcttc 420  
atcattatg 429

<210> 21107  
<211> 405  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21107

agctnttgat gtcatatatg aaaataggct cttcgccgaa atttccggtt gttatgaacg 60  
ccgataatgc aaatgggggtt atatatacca aaaatatata gtgcaagaat aaaagttagg 120  
tgcacatttt cagtatttaa agtggcttta taattgatgg gtaatcaaaa ttaaaatttt 180  
accctatat tcaacgtcaa ttctaaatg ttgattatac gaattgttta agatgaaact 240  
ctgattttta taagaaaaaa tattaataat acttaagaaa ctccgtcaaa gtgtttgcc 300  
tagtgcaatt agcatagaaa taatatatca aggtccaaa ctctttttgg nggcaaatcc 360  
cttctgctgt tggtagatag caaccattgt caatgtgatt ttgaa 405

<210> 21108  
<211> 443  
<212> DNA  
<213> Glycine max  
  
<400> 21108

ataagttagt tataccatag tctaaatatt aatatcaatt tatggaaaac taatgatcaa 60  
tgttacatgc acaggtataa taaattataa attatgaata tattgaaata ttaatcatcg 120  
tgtatgaaat atttactcta atacttatta acatttcttt tcttggaagc tgcgaagcca 180  
ctaagatttt aattttttta taggaattca cttttttaat ttccataata aaaaatgatt 240  
ttaaataaac aagtcatttg tcaaaaatgt tattataagg aaaaatttac tagaaataat 300  
caatcaaat tactcatcaa tagatacttc attaaattac ttaaaatata acattatagt 360  
gatcataaat taaaaggata taaagcataa atcaactact aaccaaatcc tagaaacact 420  
gcatgtcca gatacaaaat gat 443

<210> 21109  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21109

agctttaagc aaaatcaatc aacaataaca ttttactctc ctgtccgatt gtctcccgtt 60  
 gtatatcgag acgttcgata ttcagaatag aagctctgag caaaatctaa tgacaataac 120  
 ttttttctcg gatgtccgat tgtatcccgat agtgtattga gacactcgaa attcagaata 180  
 gaagctctga gcaaaatcaa atgacaataa ctttttactc agatgtccga atgaatcccg 240  
 taatatatcg agacgctoga aattcagaat tgaagctctg agcaaaatct aacgacaata 300  
 actttntact cagatgtccg attgtgtccc gtagtatatc gagacgcacg aaattcagaa 360  
 cagaagctct gagcaaaatg aaatgacaat aactttttac tcggatgt 408

<210> 21110  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21110

cgaattcaga tcgaattgaa gttagcttag ctgaaccttg gccagcttat cggaatgatt 60  
 cagcctcaga tgcaaggggt gggcgctaag tgcttgagac tcatggctta gcgcatgaac 120  
 agagatgcgc ttagccgcag gcttgcggtt agcgaaagga ctgttttttt tttttcagaa 180  
 aagtgttttc taagttatct ttcagtcctt tttccaagaa attgaaaccc ttgtgttaaa 240  
 cattcaaaga taagctgata tactcctatg tacaaattat acagcaagtt ccacatgata 300  
 taatgcatga aaaaacagag ataacaaaaa ttaaaactgg gttgcctccc aagaaacgct 360  
 tctttaatgt catgagctng atgcttttat ctactgggt gatcanatga acagtgcctt 420  
 gtgtccttgt anattcttca tcatg 445

<210> 21111  
 <211> 414  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 21111

agcttgatg attatgggt acccatcaca tgtgtgacta ggtggcggtc gggcgatggt 60  
gcacaacaag tttttccaca tccacaaatc gcgcataaac ccaccatccc ctgttgccca 120  
cctccaactg agctcacgta ctcccacgta gcccatatcc tcgtttctct caacaccggg 180  
tccccatcaa tcttcccaag cttccccaac atccaggtaa ttcaacattc aaacaacaca 240  
aactatcaca gccaataaaa caggggcaaag gcagaaaact ctgccccaaa caccaaccaa 300  
aatcacagct tttccactt aaagaccca gtaacatttc cttcgtttca attcgttaac 360  
cgttggatcg actcgaanat tttactggaa gtttctagta cataagccta catt 414

<210> 21112  
<211> 450  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21112

tgaaacttga gtgctattga tatgaatatt gtgtggattt gcctcanaat gtttctgcag 60  
cttatgaaat tttatttcat tggcttctta tgttttactg tggatcagaa tcaattaatt 120  
atgagttgct ttcagaaatg tctttgtacc atttttctgt tctgtttgaa gtgattctca 180  
gcttttatga gatttagttt tggttattgt ttaaggttat gtttggtttt tgcttttcta 240  
aattcccttt catgaatggt tggttacttt gcaagtatgt tgtatattaa ttttttttc 300  
ttctgaaact caattttata aaatcaaac ttgatttatt tttacaattt caatttaca 360  
acaactatga acttagttag aaacagaatt taaatatttt agtgagaaaa aatagtctat 420  
aataccttca tagaaaaaaa tattacctat 450

<210> 21113  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21113

agcttgatgca ttcaatatcc taatgagggt gttccatatg ctctcaaac tggactaata 60  
catttactgc ccaagtttca tgatcttgca tgtgaagatc ctcataagca tcttaaggag 120

ttccatattg tttgttccac catgaaaccc cctgatgtcc aggaagatca tatctttcta 180  
aaggcttttc ctcattctct ggagggagtg gcaaaagatt ggctatacta ccttgctccc 240  
aggtccattt tcagctggga tgaacttaaa aggggtgtct tggagaaatg tttccttgca 300  
tctaggacca ctgccatcaa aaaagacatt tcatgcatca ngccacttat tggagagagc 360  
ttgtatgagt attgngatag attcaagaaa ttgtgtgcaa gctgtcctca ccacc 415

<210> 21114  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21114

aaagaccttt tgatcctcat gtgcttgtgt ttatgggttt attgtcaatt ttagaatctt 60  
gccaaagtta tgtggtgttt gttttcatgg gtgctttgag ggtaaatagt agcctagaca 120  
cttgaaagat agagtgtata tcttgtgagg ctttatcact tttcattctt caactgatta 180  
actattttgc catgattggg ttgcttggat gattttcatg aatgtcttga cttttcggat 240  
ctccttatgt tagatgttac ccattccttt cattccttga tgttcattga aaaatatgtg 300  
aatgtttttg tttgcctctc tttgatatcc ttggattttg ttctttgctt cattttgccc 360  
aagagttgca aaggctatgt atggnggggtt ctgatgtgcc atcattttct tctattttct 420

<210> 21115  
<211> 409  
<212> DNA  
<213> Glycine max

<400> 21115

agctttttaat gaactttctc ttcataataa aattcacata agtgttttga ggcataaaac 60  
acacgtcata catatgattc gttcagataa caatcaatgt atattgatgt tctcctttgg 120  
gtgtacacca acacacaaca tacaacatg atgatgctaa taaaactctt aacattattt 180  
gacaattaaa tatgcatcaa ttagtagtac ctatttcctt tgggtatata agtaaaacta 240  
attatacaca caaataactt acaattatat tcattaatta taagaacaac taatcaacct 300  
ttgggcgatc cataaatgcc ttataacaat gaatttcaat gtaccataa accaataatc 360

atataattta gcatccatta ttctatgagt aattgaaata atcattaat

409

<210> 21116  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21116

tccatcaagt ggtatcagag cacaagagct tcaagtaggt gttccttaaa cctccattga 60  
attgtttgct ttaccttctc ttccattggt gtttcttcat tttttctcca tgtatctcct 120  
cacatgtctt gtgctaaatg ttgttaacat gattcttttag agtttccacc aattaaactt 180  
gctatagaag caagatttga ttttctatgg ttcanatttc ttgttcttgt tcttgaacca 240  
tgaattgtgt tgagtttagg ttcttttgag ttttgtcttg ttattttttg ttgctgaaac 300  
ctaaatcata aaattcttac aaaaatatta aagtagaaga aaacctcaaa aatctagagt 360  
gacttgttca cctattgtag ttntgtcata gaagtcatgt ctagtcatga aactngtcac 420  
ataagatttc ttatgttgtg ctg 443

<210> 21117  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21117

agcttgtctc ttagttctac atattttcat aatgaatata taaataacaa aggctagtaa 60  
aatcttcact atcaatttaa ataaatgagc tatccgtggg ccattaatgt tgagcttgta 120  
atgcttgaac ttgactcatt taaataattg agcctatttc caagcttcac tttgtttatt 180  
taattaaaca aatgagcttg attgagcatt taataagttg agtttgaata gttcaggaat 240  
agctaagctc atttacatcc cttaaatttat tttatttttg aatctaagtt ccttatgtgg 300  
tttagcccaa gagcatggta aatgtacatc atatgtggca ctaactttat tagttntttt 360  
tgtctttctc caatctcatt gctgttagca tatctaagtg aatatcaaat t 411

<210> 21118  
<211> 427  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21118

ntacaaggac aagtccaatc atattgtctt tgttgagtgc ttttagaaga tgcaggaaaa 60  
tcccatacct tagcaaagtg agcatgcatt angcatgctt gaagataagt tgcttttctt 120  
gcaagccgaa agaaggcaat aaaattaccc gttcggcacg ctctgaaaag gaaaacaaga 180  
aggaatggtc agatcgcaaa catgataacc aaaaaagaaa caaaaactaa cttctacagg 240  
aatttcaacc ttgctacact gcgagcaa atagaacttctg gagtctgcct tattgctgga 300  
gtcatcttag caatttcaag ggagagctct gcaggttcaa cctagtatga catgcttagt 360  
tccttggttn tttcgtagtg aataaagcca tataaatcan agcactacag aggctactta 420  
ctttata 427

<210> 21119

<211> 408

<212> DNA

<213> Glycine max

<400> 21119

agctttatct tctcaaggaa gcttctcaag gaggtgagct tagttttcag atgggtgtgt 60  
gtagtaagc tctagcttct caaggaagtt ttctcaaaga agcttctcta ggaagttttt 120  
tcaagaaagc ttcttaagga agctacctag tctataaata gaagtatgtg taacacttgt 180  
tgtaactttg atgaatgaga gtcttgtag acacaactca tagttcaact tctctccctt 240  
tttcttcctt caatttcgtg ctccccctc tctctttctc tccctcttct tttatctcca 300  
ttgaagcatc ctctccaagc ttcttatcca aggetcatct tgggtggtgaa gctccttctt 360  
ccatggctta ttccctattg gatgacgcct cctctcacct cttctcct 408

<210> 21120

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21120

actcagctat gtgccaaggg tgtcgggggtt attgctaata tgcacctttg gtgaaatata 60

ttaccaaagg tttgggcttc gcaagactgc tctccctcgc ggactgcatg cagatatgct 120  
gctcttctct tccctcactg ccgacttcca gtcgaccttg atctatcacc tgctgtaaca 180  
attcctccac ttacaaacac gtttccatgt tatgcagctc gctggaatgc agcaaaactaa 240  
aatcctcctt atgcccacca tggggaatca cacctccctn ttgtagggcc tcaatgataa 300  
acctcctagg gggtgccaca tcctttaaag gttagaccgg cagggcctat ctgacccaat 360  
ggcgtaaac gccccccctc catgattggc gaagcgggtt ggtttcacgt tgggccgatc 420  
ctcttgaac gtcagccatc cagcatctat ca 452

<210> 21121  
<211> 410  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 21121

tgctgtgttt ttttgattnt agataaaact aattgtgtga aatttatattt gtttgaaact 60  
aatttataag tgatatgatt aatgtttaga tattttcatt atgaaactta agagtaaaat 120  
ttagtataat ttttatatca aatctaaaaa ctattcaaaa ttatttaaac ccaaaatcaa 180  
ttatagatcc aaattcaatt ttcaaactct ctgtatgcat aaaactaaag acaagagtat 240  
atctaaaata aattctaaac tcaaaataaa ttcttttaca tcaaaactaaa cacatgatga 300  
ttntttatatt ttagttttga atttataaaa tattaaacct aattctaatt ctgaggggtga 360  
tgtttcgggtt ttaagatatt agatgttgct ttaagttgaa aatagataaa 410

<210> 21122  
<211> 448  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 21122

tctaaatgag gggggaaaat gcgtaatttt ccagcatgtn ctttaacgca tttgtataat 60  
atttaggcat catttagcaa gagttagtat gctatctaac accacagcaa tggccttaca 120  
gccatgctat gctgactgga aaaaatacaa ttgaaagtgc aggttctctgt tgcatacagg 180  
tctgacccaa cggtgatgct gtgcctgtac agtttcaaag aaagtcaaatt tttacctgat 240

gtgcaaagcg agagttctga taaccagtct tcatcagctg gcccacatggc tcgtgaaact 300  
gtataaagta aattgcatga attctagtgt ccctgaccag tagaaacaga acttataata 360  
ttgggaaaag gctaaacctc ttctaccttn tgggtgtaata ttctttgagc ttcttgatga 420  
cttaatcgta ctctctctct ttcaagct 448

<210> 21123  
<211> 393  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21123

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tatgcaagtt gaaagccttg gaggaagag gtatgcctat gttgttgtgg atgatttctc 120  
cagatttacc tngtcaact ttatcagaga gaaatcagac acctttgaag tattcaaaga 180  
gttgagtcta agacttcaaa gagaaaaaga ctgtgtcatc aagagaatta ggagtgaacca 240  
tggcagagag ttgaaaaca gcaagtttac tgaattctgc acatctgaag gcatcactca 300  
tgagttctct gcagccatta caccacaaca aaatggcata gttgaaagga aaaacaggac 360  
tttgcaagaa gctgctatgg tcatgcttca tgc 393

<210> 21124  
<211> 458  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21124

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gcaatatcgg tgaataatat ttttttgccg aggtgggcta atgttttctt ggccaaataa 120  
atgggaacat gccagtttcg gccgaaaaga aacatcggtt gagctcgac ggaaaaacct 180  
agccgaccta cgttgtaaat tttttaggca acacaaaaac aaaaaacttc ctctaccgtt 240  
aaaaaaaaca ttatcgcca gcgtttgtaa aagaaattgc gcaatttcgg ctgaaagata 300  
tcaatcaggg acatataacg accgacaccg gccattgttt attctattta atccctgaat 360  
aacaattgga tgatgtcgat tangaaatgt tcgatcggca tcatccggtg aagcttcttt 420

tttagacctc gatcggtcat ctttcctggc cgacgccg

458

<210> 21125  
<211> 405  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21125

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gttagttgtg ggggtgatgt cgttgtttgc taccattgat ggtgggtcaa gaaaaaatt 120  
tccctcaccc cactgtggac gccaaatggt ctttctggat ttggcaagat cttctcatag 180  
tggtgttcct ttataagctc ctccacgaat tgtggttaagt ggtaccatac ttgcaaagac 240  
actttgacat tcaagttaaa ggtgcagagg tatgcaagca tcaatatgta ngttgaaatc 300  
aaaatgaatt acctgaacca caactatccc ttntatagtg gtgagaatgg attatcttat 360  
ctcaatctct catctaagac taatgtaaca tgannaaata tgatc 405

<210> 21126  
<211> 436  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21126

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cggaatggag aaggaagaaa tatgattgga gatgccactt caaggagaag atgagtcaag 120  
cacaagctca ctaccatagg aagccatgga taagagcttg aaggaggaga aaatgagtgg 180  
agggagaagg agcatgaaaa ttctgtgcct caaatgaggt ctgaactttg aattataatt 240  
ctcaaagat ccaaggccta caagctctac atggagctac atcatgtggt atcaaagcat 300  
cttctctac gtgatgttct attgcttctt ctatcttttt gtttgggtcaa ttcactttta 360  
ttccttggtt ttctccatgt atctctctca ttgtctctg gtttgggtgat gtttagagta 420  
gattaaaaaa gataac 436

<210> 21127  
<211> 399  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21127

agcttttgaa gcactgtagg acaggtgcat gttgctgaat ggaactatgt tttcaattcc 60  
ttttagattc tttttctatc ttttagtaaaa tgtgatttgt tctttgaatt tcttcaacct 120  
ttgtccaatg ttcacttgat tctaatttat agaatgagca atttagatgg tattattggt 180  
ttgtctgata aagcagaatg ttaaagcaa tttataagta tatatttatc agtaaattgg 240  
cattcattcc tgcaactcaa tacaattaaa cctattgtat ctatgctaaa taagaactta 300  
aatgaacta tataaaatta ttttaattgca cgaatganat tatattcatc taagagcttc 360  
aattatttga attacgcagc aattntatga acgctgttg 399

<210> 21128

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21128

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gttataacta gctgagtttg ttgttgtaag ctccctccat gtatgaaaac tattcattgt 120  
aatcattca aaggatgatca ataatacaag tctcattctc aattctttat taattcccct 180  
ctaaatagaa actctgtgtg tgtaaaccac ccttgctcca atagatttgg tatcaagagc 240  
cttgtgcgat caaggagct tctgctgaaa ctgagagaaa cgttcattat tattgatcat 300  
tgttgctaca accatggctg ggaattcgtg ttttctaaga aatttaccaa tacttgatgg 360  
caagaattgt ggacgatgga acattcaaat gaaggaata ttttggtttc aagatgttct 420  
tg 422

<210> 21129

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21129

agctattctt cgtgggttga tgggttctgt ctcatagaat ggcatgatca ctggctgaca 60



tgtttctcaat taactcagtt gcttcttctg gggctctcag ttttatcttt cccctgcag 120  
 aagcatctaa caattgcttg gtttatggtc tcaaccatc tataaacata ttaaactcgaa 180  
 ttggctcata aaacctatgg gtgtgagttc ttctcaataa acctctgaac ctctccaatg 240  
 cttcactcag agattcatca gggaactgat ganatgaaga gattgcagct ttcccttccg 300  
 caatcttggga ctctgggaag tatctcttta ggaacctttc aacaacttct tcccatgttt 360  
 tcagactggt acctttaaat aagtgaagcc acct 394

<210> 21130  
 <211> 455  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21130

tcaaccctc accctttctc ttccattntg tgtgtgaaga tcttcaatgg tatgtggggg 60  
 agttcttctt aatgaactca gttcttggtt tcctttggga gaaggcaacc ttggtgtaat 120  
 gatctccat gcgtccgcat ttaaaaatct taagtttgt gaaaagaaaa tatagttaa 180  
 ccaaatttgt ttttgtgaag ctgtgatgaa ttcttgcaga ctgcttgttt tcttcttcat 240  
 tttttgctct atttgtgatt gggagagtta caaataaaaa ggagactctg ctcaatcttt 300  
 ttagaatttt ttcacaagct taagtttaga aatttggggc catgagaatg gtgagattga 360  
 ctggaagatt gagttctctg gactagtctc agtagttcaa gcctatctta naatctacct 420  
 attggttttt catgaaattg gtctttnttt gcttt 455

<210> 21131  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
 <400> 21131

agcttggaca atggttgga aatcttgcta aaatcctaga taaatctctt gtaaaacttg 60  
 gatgtcgcag aaaagaacgt acttcccga cagatgcgtc gtaaggaaga gaagtaataa 120  
 catgatctt tgccttatcg acctcaatac ctctactaga gactgaatgc cctaagacta 180  
 tacctccatg gaccataaaa tgacattttt caaagttaag aacaagggtta gtctcagcat 240

cgggtcaagaa ctctacagag gttatccaaa catgcatcaa aggaagaacc ataaacaatg 300  
 aaatcatcca taaacacctt catacaactc tataataaat cagaaaagat actcaccatg 360  
 caccttttga aggtgccagg agcgttgcat 390

<210> 21132  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<400> 21132

gcttgagtga tattgtcaca gaatacactt gaggcacctc ctctatttca tccacccac 60  
 ttgaattcta gtcgcgcat agttaaaaag gtgtatatatt ttacagcatt gaggagaaat 120  
 aataatcaag ggaataatca ttctattttc aaaataataa ttgttacagc tgtcatgaat 180  
 tactagtagt tagttagagg gggtaagaaa ataaatagga aagactgaca gagggaggag 240  
 aataataaat gtaagaagag ttggcctctc aaagagctaa gttaggattg atgcagctct 300  
 tgctacttca tgtattttga taaagaacta tccaaggaag aaaagtttga cttagtgtg 360  
 ctcaaattgg atggactaat cactagagca aggagtaaaa gatttcaaga agagtttgtc 420  
 aagagactaa attctctcat ggagggaaaa gaagaagaag tg 462

<210> 21133  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 21133

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 aacttttttg tgcaatggaa atgaaaaaaaa taaggatgat atcttgtaaa tggaaacttg 120  
 gggattgttt ggttggaacca atttatgcag atacatatac attggaattt atttttctga 180  
 gggttaatttc agtcatgacc tcttggaagt aattatgtct tttgcttctt tggatatttt 240  
 gtgggttccca ttctaattc attttttaat atctgccaca ggggtcaaat cagagttttg 300  
 atcttcttat taagaaaagg agtgacatct gtacaataat gtatactagt ggaactactg 360  
 gtgaccccaa tggagtgttg atatcaaatg agagtattat tactctctta g 411

<210> 21134

<211> 453  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21134

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 cttatagtaa aacacaggta gaaacgtgat atataatttc tctggcagtt taatttttga 120  
 agctgtgcat gttaaacaat ccaagaagag gtgagtagtt attatgagat ggcgcaattt 180  
 gcagctccaa ctaataaggc tggttacgta cgcagacgga gcacatggtc cctcagagac 240  
 ttattaactt tacttgtcta attcactgct tatggcgcat cacgtgcccc tactcttacc 300  
 attaaggact tggatactaa ttgcaaaact ttntttctcc tattttttacc agtaaggatca 360  
 agtgtttaaa tagattgtaa attactagta tnttgatttt ttaatatgat tatatacaca 420  
 ttattggaga ataaatgcaa gtttctgtat tct 453

<210> 21135  
 <211> 325  
 <212> DNA  
 <213> Glycine max  
 <400> 21135

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 tgatctatta cacagggcaa attttgaatg caaatgttat atagctgttg taaatcagga 120  
 ttggctcact ggtaatatat gacatcctct ggtaatcgat taccaaacag tttgtagtat 180  
 gcaaaggact gtgtaactta catctcttgg acaaaccttg tgctacttca ataggaagac 240  
 ccttcctatt taatataccc tttataagac tctatatact gtcttgatca tccatcgcca 300  
 atatcatgaa ttgcttggtc tcgaa 325

<210> 21136  
 <211> 457  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21136

tgtctcttca tatttaaagg caatgaaatt cttattttgc ttatactcct tgttttgatg 60

gtgaacttca tagactctca agatgctcag tagctcatcc catgcaagat tttttttttt 120  
atctcttgct tcttgaataa ctatggctctt tgggtcccag accttaggga agctatatag 180  
ttccaaaaat ataatcatca naataaataa aattatgact tagaaccaca tattagtggga 240  
tggtatccaa acctctctcc atgtgatgtg tgtacaccaa agcttaaaag cttctcttga 300  
agtgtcatgt tgatttcgaa cctcttagag catccncaat gagaaatgct tacatgaatt 360  
gtttaacttt aagtaacgtt gcttattatt gtcaggcccc actagtctat atttaatata 420  
anacaatatt ataagaattt actttctata ttaaaat 457

<210> 21137  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21137

agctntagtc tctatagatc ttcacacagc aaaatctctc agaactctct ggaacttgga 60  
cctttctctc tctaaaatct ctagacatgc aaagctctga atcccagtc aaactcctta 120  
tctaaaatct gatttcaggc ttaaataagg gaccttggtc gtgctcgtgc gcttagcgca 180  
atcttgacc gcttagcgca cattagtga tttcggttta gcgcgtgcct ttgtcgctta 240  
tcggatggac tgaagcgggt cgcttagtga gatgaagcgg tgcgcttagc gaacctatac 300  
aactcatctt cttccagatt cttccttgcg cttagccaat gagtggttac cttagtgggc 360  
gctcgctaag ccaatggact ggcttagcga gaaggtgaan aacaacac 408

<210> 21138  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21138

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cgtctcaaat cacctttact ccttctccat tccactgcca ttgatcttca agaagcaaag 120  
gactccattt atgaagaaga tccaaggcct acaagctcta catggaacta cattataaat 180  
ggagaatgtg tacagattgt agggctatca acaacataac tgtgaagtat aggcacccca 240

tttctaggct tgatgatatg cttgatgagt tgcattgtgca aacatatttt ccaaaattga 300  
 tgttaaaagt gggtatcacc aaatagggat tagagaaggat gatgaatgga aaaccgcttt 360  
 caagaccaag tttgggttgt atgagttgct agtgaatgcc tttgngctca ctaatgcacc 420  
 aaacaccttc atgaggctaa tgaat 445

<210> 21139  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21139

agcttgtaat cgattacaca tatactgtaa tcgattacct gagcagattt tcagaaaata 60  
 ttctcaacag tcacatcttt ttatgtgggt cttgaatggc tatcaaaggc ctatatatat 120  
 gtgacttgag acacgaattt gcgaagagtt tttcaaaaca aaaaagtctt atcctcttat 180  
 aaagcaaaat tgttttatcc tcttaciaat tccttggcca aattacttgt gattcaataa 240  
 ggaatttttg agtgctcaaa ttgttcaatc tatctctttc aagagagatt tcttcttttc 300  
 ttcttcttca ttctgaaaag ggattaagag accgatggtc tcttggttg aaagacatct 360  
 aaacacaaag tgatgtgaac cttacngtgc acggatcgct tgataca 407

<210> 21140  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21140

tattgctnta gcactaattt tcagctcgct tgnngagagct gtaactgccc caaagtgacc 60  
 ctttgccat aaatagccat cctaggggtg ttttaagggg ttccaagggt cagaaggatga 120  
 gggaattttg aaaagagaga aagaagagga aacaaagtgc aggcattgcc gaattgcaac 180  
 cgcatcatt cctatttcg ttntcttggt ctgtgttctt cgtgcaaccg tcagttagtt 240  
 tatttttttt gtaattgaat gtgatctatg tacccttagg ggtgcccccc ccccttggt 300  
 atttgtgca tattcatttc ctccatctat cattgacgat ctcatctttc tttataaagt 360  
 tcaatcttaa ccgatcacta gtgttgtaaa gttgtcttta nagagattga aagttaataa 420

acaaagccaa gataaaacca actcat

446

<210> 21141  
<211> 407  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21141

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caattcatca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120  
gacagctttc caggttctgc tatccagtga tttgaggaag gccaccatcc ttgctttcca 180  
gtattcatag ttgggttccat ccagaatagg tggctgtgtc actggtcctc cttctttctc 240  
catgttcac agaatattc tccctagatc tcaactcagt atttcgagt ttggctctga 300  
taccaattga aattctgata ctgngacag atgtcgtaca ggatgtcacg acatcacgct 360  
tcagaacatg cagattgtat ttgacagtgt gcacagttta agcaagt 407

<210> 21142  
<211> 445  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21142

ntaacctcat cgtccctcac agtctttata tttgggagcg tatccaatcc ttgtgttcgg 60  
actctcagcc acttatgata gccgccgatg atcccattac tgcttcccct aagctctctg 120  
tcctttcttc acgccgcatc ccatgccttg cgaactcctt ggagtaccct cgcgttgtgg 180  
tcaactaaac cccgtgcatg gaaaggcgtg atgctttcgt ctaatggcgc tcctctcatg 240  
gggtagccaa gctgtcttat ggcgagaacg agattataat taatacaact ccttggtccc 300  
atcaaggga catttggaac tccttcgcat gaagatagaa tctcgattct tccttccttc 360  
tagcgaggga accaattaac agacgcccc ccatgctagc caagagttgg tccaattcg 420  
cctttccttt ntcgacgcac gagcg 445

<210> 21143  
<211> 407  
<212> DNA

<213> Glycine max

<400> 21143

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tcattggtcaa aaaggccaac ggcaaattggc gaatgtgcac cgactacact aatctgaaca 120  
gggcataccc caaagacgtg taccctctcc ccagcatcaa taggttggtc gatgaagcgt 180  
acgaattcca ggtgctaacc ttcttggtatg cctacttcgg atacaactag attagaatgc 240  
atcctctaga tgaggagaaa atgaaattca taactaaaaa tgtcaacttt tgttacaagg 300  
tcataccatt cggcctagaa aatgcaagcg cgacattcca atgaccaatg gaccgagtct 360  
tcatacaaca gatcggacga aatgtcatgg tatatatgga tgacatg 407

<210> 21144

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21144

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acgttgcttc caatatgctt cctcatgggc aaggagatgg ttgagcttat atttgataat 120  
ggaaaattga agagttggct cttcataata agcttctcta agggcttcca attctttttg 180  
gtatgaatct atttggtatgc aaaaagaatt ttccagttaa catccccaag catgcatgtc 240  
tgaggaagat tttccaagac ttgaaaggaa atcatcattg ggtgcactag tccacccta 300  
ctcaaaaaca agatcaatat ctagtttaag gagccaagag ttttcaaagt agaatttgct 360  
tttgaacaaa tcttttgtgt tgacatcaac ctttaaatg attggagagt gatc 414

<210> 21145

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21145

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accaaagacc ctgtgggttc tacttataac ttatgaatag aacatgtgtc attgtgaaat 120

tttgaaactg ataatgcttc tctaaactga tgcacacccc ttcctctctt aactacatta 180  
 tcatctcata aactatgccc accacctgct tgtgacaatt cttacataaa actgaaaaca 240  
 atgcttaaga atatgcgact aaaacaagta tgaacattaa acaattcaag taattaagca 300  
 tggcttcttc ctcaaagtga tgttctgcag caagaacaat ctttccctta agtcctaatt 360  
 tggagaanaa taaaacttgg aactaaaatn gaaagcttgc tt 402

<210> 21146  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21146

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 aaattntatt ccaatttctt gtcttanaat tttctgcatt aactgccatg atctccttca 180  
 ttntgtatth taaaacaaat atgctctcat acgtaaagta aatgttctct tcgaatagtt 240  
 tatgtttgac ttaattcaat ggcatttgat ctatatggcg tggatctcac gtagtgggaa 300  
 aaggttatgg gtttggtgat gttgaattcc atatataatt aaaaaagaat aatggatata 360  
 atattctaga gacccatgca ctcatth 387

<210> 21147  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <400> 21147

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 acattatgca aaatatgcag ttgccctccc thtagagctt gtaggccttg gatcttcttc 120  
 atcaatggag tcctttgctt cttgaagatc aatggtagta gaatagagaa ggaggaaagg 180  
 tgattggaga tgccacttca aggagaagat gagtcaagaa caagttgacc accataagaa 240  
 gccatggata agagcttgaa gatagaataa gatgagtgga gggagaggga gatgatgggc 300  
 acgaaatcta tttctcacat gaggtctgaa atttgaagtg taatttctca aattatcaaa 360  
 gctgaataat atgcacaca 379



<210> 21148  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21148

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 tcagtttcac tttccaaagg aattgtttta tttaaaaacc atagttggca tatttttagaa 120  
 aaataagagt ctaagattat actaaaatag gaaaacactt taaaagtttg tggggattta 180  
 cagagactat ttacaatgtc atagtaacaa aacatatttt tccaaaacta aatttgcat 240  
 ccaagtaccc ttttcaaact tattttcctt ttgttgga aattctattn tagtcgtaat 300  
 aaatcatttt taattaacaa agtaccttga aaatntatga gaaaaatgaa gcattctctt 360  
 tagagataac tntacgacan ttcattttca tgcattganat atatgcacta natcactaaa 420  
 tatatacttt ttttc 435

<210> 21149  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
  
 <400> 21149

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 ctctctatga ttttacctag tgagagtgc ctaacttact agtgtatggt ttgacttggt 120  
 atgtactcct aggcgcccga cgagggtttt caatgaaacg gtaccacatt gcataatagga 180  
 ttgagtctta gtgtatttgt tgcataacgc ttgtgtattg atagatattg attgatttag 240  
 taatattgtg ttttgatcct tgagtacgtg aatgttgtga aaatgaacga gacatgtggt 300  
 gtgatgtgat gttacacgac aaagtgggtg aatgacgcga actatgttta agtaagttgt 360  
 atctcattta tatgatattg atatctatgt tgtctcattt ctct 404

<210> 21150  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 21150

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caaatccctt atggcttgaa gcgtggatag tgtgcaatcc caccagcctc gtgcttaaat 120  
ttaactttnt attacaaaaa ttggggcagc acagattgaa atctagaaca ctaagtcata 180  
gaatctttgt taccatatac tggacctatt atcccaaaat cttgagctat taaagtgaag 240  
atgcatgatg attntatatt acgtctctaa ctcccataat atttaacaat ttggcacttg 300  
gatgaataaa ttntgtttga cttctgtcat ctttctgtgc ttgtgtgtgt agaatgtgat 360  
agagagagat gaaatgaatg tctggagatc ttgaattgga agtttatgta tgatttcaca 420  
tgtcaattca ctgactaa 438

<210> 21151  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21151

agcttcacag tttattnttt tcaaacttga gttttggaag accaattact aagtctttcc 60  
taactagatg atataaatga tggatgttaa tgtgttcaac cctacaatgc cacaaccatg 120  
aatcatcatc tatcttactc accaagcaac ttagctcatg aaaagatgca tgctcaacat 180  
tcagcatata aatattacct attctcttac caatgtggac aactttacca gatatggctt 240  
cacttataag atagcaattt ctgtcaaact caatcttgaa acctttatcg caaagttgac 300  
taatgttttag aaggttatgc tttagtgcac ccatatgtag cacattcttt atctgagttt 360  
tgtgttaatt ccttatattt ccttccccag ttattttt 398

<210> 21152  
<211> 452  
<212> DNA  
<213> Glycine max

<400> 21152

gcttcatgat gatgaatcaa gttgattcaa gtagttttga tgattacaaa gatgatgaca 60  
aaaagcccaa gagaatgatt tcaagattga ctcaacaagt ttcaagaatc aagagaagtt 120

tgatttcaag attcaagaga agatgaattc aagattcaag agaagaaatc aagaagactt 180  
 cacaagggaa gtattgaaaa gatttttcaa aaaacaaaca tagcacagtt ttttttttca 240  
 aaacagtttt tctcaaaatt ttctaagcta ccagagtttt tactctctgg taatcgatta 300  
 ctagtttctt gtaatcgatt accagtggca aagtttgatt tcaaaagttt tcaactgaat 360  
 ttgcaatgtt ccaattaatt tcaaaatggt gtaatcgatt acaagatatt ggtaatcgat 420  
 tactagtata tctgaacatt ggaattcaaa tt 452

<210> 21153  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21153

agcttgtgtg atgttgcgcg tactgatggg taccatgaga tgttttctgg ggtttgaccc 60  
 acgcggtgtg tgaagagacg gcatgggcat ctcttctctt cctttntgcc cctgttgccc 120  
 cgattctttt ggcattcgcg tttgtagagg aaacgtaatc aaactttcct cttttcaatc 180  
 caacctcgat tctttccccg gcaaacacca gatccgcaaa gctggacggc atgtaaccca 240  
 ctagcatctc atagtagaac actggcagag tgtctacat catggtgatc atctctcttt 300  
 caacatggg aggagctact tgtgccgcca aatccctcca tcgctgcgca tattctttan 360  
 aggtttcacc ctctttcttg aacatattct gcagttgagt acggtcagga gc 412

<210> 21154  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21154

tctatggagg ctggatcttt gagctntaat aaggtccttc tttgtgattt tttgtcatgg 60  
 agttgtagcg gaagataaag gagaagaggt tagaggaggc atcatccact agagaataag 120  
 ccatggaaag agaagcttca ccaccaacag agtgccttgg ataagaagct tagagaggaa 180  
 gcttcaatgg aggaagagaa tgagagagag ggggtgcatg ggaattgatg gagattaggg 240  
 agagaagttg aactttgaag tgtgtctcac aagtttctca ttcataaaag ttatgacaag 300

tgttacacat gtttctatatt atagcctagc acatgggaag cttccttgag aaacaatgaa 360  
 ggtagcttcc cggggaagct agaggaagaa agcttccttg agaagttaga ggggggctac 420  
 tcacaccctt ccaatagcta agctca 446

<210> 21155  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21155

agcttgtgat gttgttgttt gttggtttgg cctctggctc tttcacttat agggatagta 60  
 ttttgcattg tgttatgttc tgtaatttgc ttggcttttg tactagtttc taactaatgc 120  
 tctcatgaat gaaatatact attattaggt gctctcagtc atgggtatatt tagggatcat 180  
 ttgatgtagc tatatgttta aggacaccct cccaagaccc actaaacctt gatgccctat 240  
 aactatacca ccagctaac tgcattttga tgatgtccat cagtcacctc gtcagacaca 300  
 tgtaggctga agtagtaact tgtggttntg tggaatcgtg tccccaggat tagacctctc 360  
 cagaggagca tttcgaaaca attatttggc ctagaaaagg tactttgatg taa 413

<210> 21156  
 <211> 462  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21156

gcttctgcat gtctagagat ttctagagac agaaaggctc aagttccaga gagtttgaga 60  
 gattttgttg tgcaaggacc tgcagagacc ggagcttgaa gaggaagttg tcctgagagc 120  
 ttgagatgtg tttgtgagtg agtgtgaggt cctagagggtg gaggaacat cccactact 180  
 tgtatttctt caatccttca tctttctctt ctctttgttg taaaggaagc ttcccagtta 240  
 tggagagcta aatcgtctgt tgtttcttcc ttgtaggtac ttgatgtaaa tacctatata 300  
 tctatttaat gatgttttgt gtgttcactg tgctatcaga acttcattct accatgcttt 360  
 tgtcttgatc atgtagatgc atgtgttaat aggatcattc aacagtggaa actggtttga 420  
 ttcttanaac ttgataaggc agggctagtt tatcgtatta tc 462

<210> 21157  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 21157

agcttggacg aataagggtga tgcacttagg aaacacaaca acaaacaggt atgaaaatgt 60  
 tcatttttta ttaggggtga tgaattcatg gattttaatt gttttttgtg tatttgaaat 120  
 gtaggggtga atttgctcat tggtatttgg gatgccatga acaacatgat aacgctgcaa 180  
 cacactgaag ttaaggcatc ctttgagaca aatacacatg tggttgtaca tgtttttaaa 240  
 gttaccttat acaagaggct acttggcatg gtatcaaggt atgctttaaa tcagattgct 300  
 gctgagtatg gccgtgcaca ttatgctgga aaaaaaccct tctcattgtg gatgtgtgat 360  
 aagaactacc cacgggtcttc catctgcatg tgagctattg aagtatgctc tt 412

<210> 21158  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21158

ctcaagcttg gatttccttt gctctggaaa cctctccttt cttatgtgaa cccaaaccca 60  
 tctctccaga ttggaaaata acctttttgt gcccttggtt tgcttgttta acataactct 120  
 cattcttctt ttcaatttgg gccttgacta tttcatggag ctttttcaca tagtccactt 180  
 tggcttcctt ccttatgctt aaaaactgaa atattagaca ttggttaaca atcaagagga 240  
 gttagtggat tgaaaccata agcaacctca aaaggagaac aactagtggg gctatgcaca 300  
 accctattat gagcaaattc aatgtgaggt aagcaaactt cccaattttt aagattcttt 360  
 ntcaaaatgg tccttagcaa ggtacccaaa gtcctattca cgacctccgt ttgtccatcc 420  
 cgttgagggg gacaagtagt a 441

<210> 21159  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 21159

agcttgtcct tctattgtta cattctcccc acactgcaag ttctgacttg aaaaaaaaaa 60  
 attatatcat gcaaagtctc caaatgaatg tggcacgttt ctttttcaat tctcaciaag 120  
 ttatgttgga tcatatctcc caaaaagaaa aagaaagaaa ggaaaaagtt aagttggatc 180  
 atggtatgca taattgaatc aattgggcaa aaattgacaa cacaacatgt gatcaataat 240  
 gttttgttaa actatgaaaa agaaagggtt tgtaaacgg tgcataggga gttctgcttt 300  
 cagaatctac tactatTTTT tctgatttca gaatcaaaac cataaaaggc taaaacaat 360  
 tacagctagt taaccaaaca gcttgcttca attcctcatc tcata 405

<210> 21160  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21160

tgcccagaga aggagtccac ggaggaaatg cttaccacct ttaagactg gaaagcggtt 60  
 tctaatgact cctctgcggc ctccacataa ggcatagagg acgggcagct caccaagatg 120  
 tcttcttcgc ctgatacgat gaccagatgc ccttccacta cgaatttcaa cttttggtgg 180  
 agtgtagagg gaacaacccc cactgagtgg atccatgggc gccccaacag atagttgtag 240  
 ggggggttga tatccattat ttggaagggtg acttgacagg tgtgagggcc tatctgtact 300  
 gggagatcga tctctccctt aacctctcgg tgggtgccgt cgaaggcacg aaccaccatt 360  
 gaccttggct ntaagtagga ggcatggaat ggtaatttct ccaaagtgtc cttatgcac 420  
 acattcaaac tggaaccatt atcgat 446

<210> 21161  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21161

agcttgcaca acaagtaact aaatctgttt ttgttttttt ttacaaaata aagtaactaa 60  
 ctaaattcca ctaatatata gagtgactac tcagaaggaa gggtaggca ttgattaggt 120  
 ccatctaate tacctaatta aactatttac acaacacaaa gcccaacttc gcaaccaat 180

tattaaagtg cagaggttct gacttccaag ccgaatttga ccctcaaaat gacagaaatg 240  
 acccaagcta attttgaaaa aattgaagat ctttttctta gctnttcaga gactactcac 300  
 acacccatt tggagttcta caatgtacta tagactctgc acaagacaaa taggtcaagt 360  
 gagcataaaa ttctaagaat aagccacaat tattaattaa gcttaatcat 410

<210> 21162  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21162

tcttatccaa ggctcatctt ggtggngaat ctctttcttc ttggcttatt ttctagtgga 60  
 tggcgctcc tctcacctgt tctccttctt cttccgctgc atctacatgg tggaaaatca 120  
 ccattaaagg acctcattga agctcaaaga tccagcctcc atagaagccc cacaagcaag 180  
 cttccatcaa gtggtactcc accttgaaa ggatttgacc tcaaattccc aggttcttta 240  
 tactctgggc tccttccctc aacacctgta aaaagaataa aaacatatgt attagcgggtg 300  
 ttgggttaca gtagggttaag gtctgaaaac ccctttcatg gacatcttcc catgagggaa 360  
 catggttcct caccaattca atgagtgggtg ctacaagtat agaagaatat gggacaaacc 420  
 ttttgtaaaa gtttattaag tcatg 445

<210> 21163  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21163

agcttggatt tcctttgctc cggaaacctc tcctttctca tgtgaaccca aaccaatct 60  
 ccagggttga aaacaacctt tttgtgcccc ttggttgctt gtttagcata gctctcatc 120  
 ctcttttcaa tttgggcctt gactctttca tggagctttt tcacatagtc tgttttggct 180  
 tgtccttctt tatgcttaaa aactgaaata ttacgcattg gaaacaaatc aagaggagtt 240  
 agtggattga aaccataaac aacctcaaaa ggagaacaac tagtggtgct atgcaccgcc 300  
 ctattataag caaattcaat gtgaggtaag caaacttccc aattnttaag attctttttc 360

aaaacgggtcc ttagcatggt acccaaagtc ctattcacga cctcc

405

<210> 21164  
<211> 443  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21164

taaggagaca agcctagatg actatgtgat tgacctatgg tttaccctgt ttaacatgcc 60  
aagccatgcc ttttaggatt agagttgctt ttgaaattnt aacaaaaaat ggttaaagta 120  
agtttaaacc aaaaatggaa actcatccta tcctaataccc ttagatagag gtgtgtaacc 180  
ttccttgat tttgtgtaat ttgagtgaac cttgcacaaa gtccactctc atagagcaaa 240  
attacactgt cactcaagac atagtgtaat tctttcacag atgaaacttt agctcataaa 300  
ttntttatat ctctctcaag ctatgtattn taagacaatt cctagttata atttgctaac 360  
acattcatac taaaaaacaa tgggtgcatac gttaactgat atctataaaa atatatacaa 420  
atacttaagt atttaattt aat 443

<210> 21165  
<211> 412  
<212> DNA  
<213> Glycine max  
  
<400> 21165

agctctgcat tatcgagagg aagcacttcc tccaccacct tgtgattatg agagatagga 60  
tttgttgagg ggattttgct ggagagaatt gaagcctcaa accagaatga atctagcaac 120  
ctcagaacat gttctgcagc cattattatt actgtcacia aatgaatgaa tagcttaaat 180  
tgaaattaga tcctacaaag atatgatgag gatagaggag attatagaga taagattaag 240  
atgtgtgtcc tatgtggcta tttatattaa gagtggcatt acttaattgc cagtggctct 300  
atatgtgtgt gttttattcc cctattttat tcgaatatgc aatatgggaa atctcacgaa 360  
gctttcttct tatgtttgtc tggttctgag aaaatgatga aattaatatc tc 412

<210> 21166  
<211> 471  
<212> DNA



<213> Glycine max  
 <223> unsure at all n locations  
 <400> 21166

agctctgtac gtctgatact tgctttacgc gtccttagat actcagctgt tcggtggtct 60  
 acacttacct cagattaaaa gttttttctc ttctttgata cataaatgaa ttgggttaaat 120  
 gaacctaaaa gatgggttttt ttttttataa aaaacatttg ggtaaagcag ccaattctta 180  
 agatgctttg gtatcccgct ccaaattgga cattcttggt acacaactgt tgttctgaac 240  
 gtataatata ttgtaatcaa cgaaataaaa ttactatcaa tcaaagatac tagggcatta 300  
 acataattat gagtggatta gttggaatta aaaaaaaact gantaacggg gttgattgaa 360  
 ttttaactaaa ttcaattata acctttttct cagtaactaa ctaattacaa aaagcaacac 420  
 aagactcgat gagtgtcttc atgccccaaa atatgatact atgttacata g 471

<210> 21167  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21167

agcttatcac cacaagttat ttctgctaag catgtcttaa atagtaaagc attgtaacaa 60  
 atcttgattt tacacacaca cacaaacata tagtggaat acaagaaatt ataaacttta 120  
 atatagaagt actagacatt gccaatctga agtgaggagg aagaaaataa gtactgttga 180  
 agatacacia gtacatacta tcttgactg aaaactgggt ctgtgtcagg tgatggttgt 240  
 gtccttcgag tgtatttgag tagcaaccct tctgaagaaa gacctggtac cttcagatct 300  
 ctgaaacatc tcataagggg ttaattcana tgtaaaaaag atgatacgtn tgaaggtaaa 360  
 aataattatg agatgttcac ctgatat 387

<210> 21168  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21168

taactgtttt gtaaaatgga acatatgaac taaatcatgt ttgtgataac aagatatgtt 60

[illegible]

<400> 21169

<210>	21170
<211>	409
<212>	DNA
<213>	Glycine max

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acctggagat	atgtcgcgng	ggtcaggaga	ccttgtggac	gtcaggtggg	gtgctattgc	120
ccanaaccaa	gcttgaccaa	tcccgaccca	acccggcata	gtcggtcagt	gagaacctgt	180
gatgtaccta	agcaggcgag	ctcctggcag	tcaacagata	aacgganaac	aagaccacaa	240
agcaaggagg	cttgtggtgg	ctggccaact	gtgaattttg	tgtgatatgt	ggattatgac	300

ctctggtaat cgattaccaa ggggtgggtaa tcaattacaa ggcttanaaa tgaagacagg 360  
aggctaagat ggtctctggt aaatcgatac caaggggtgt aatcgatta 409

<210> 21171  
<211> 205  
<212> DNA  
<213> Glycine max

<400> 21171

agcttctatc ctatggactt accttgaatt aattcctttg atagccccctt tgagcctatt 60  
ttcccatttc tttgttttga agctcattac aagccttaag tgaaaaacca tgatatcacc 120  
ttacccttaa ggaatttttg agctttggaa ttgttttggg aataagctgg gaataagtgt 180  
gtggtggggg ggggggtttt aaaat 205

<210> 21172  
<211> 349  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21172

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atagtttgag gtagtataag ataacaattt tgtatagttt agtttgaatt gttaattgta 120  
tatatgccag attatntttt gataaatgaa tagttttagg tagtataaga taataattct 180  
gtgtaattta ttttgaattg ttaatgttat atatgccaga ttatattttg ataaatgaat 240  
agttntaggt agtataagat aataattncg tatagtttag tctgaattat taatgttata 300  
tggtagatat gatatacggg tatatgataa attagtgtcg caacctacc 349

<210> 21173  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21173

agcncgctac attggataac atganaaact gtctttgcag agacagagag ggaaagatgt 60  
gaaaaccag ttacctaggg gaattttgcg atccgctccg agtaaactac actagtttgg 120

cactaggttt gatgacatgt caatgagtta cttacagaaa tgatccaaca attgaatcag 180  
 ctctggctaag ggtctgggtt tcgattcaac cagccggggc gagccgagtt taataacact 240  
 gattgngtgg gttccttact tagtattgaa aatcctgctt tcaatttgat agtaggtagt 300  
 aaagttcttc ttcattggagt atgtctcatt aagattctcc cgcatttcac aaatggaggt 360  
 agaaaacata caattacagc ttattttttg aatc 394

<210> 21174  
 <211> 369  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21174

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 aagatcaagc atcaagaatc caatccaaga ttcaagagaa gaaatcaaga cgcaacatgt 120  
 caagacttca tataggataa gtattaaaag aatttttcaa aaaccaaata gcacagtttt 180  
 gttttacaaa agaattttct caaaattntc taagctacca gagtgattac tctctagtaa 240  
 tcgattacta gttatcagta atcgattacc agtgaccggt ttggttntca aaatggtttc 300  
 aaatgattta taatgttcca aaatgattnt caagtagtgt aatcgattac actgtattag 360  
 taatcaatt 369

<210> 21175  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21175

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 ttnttaaatt tcgagcctct caacatatta tgcgcccga tgggacatcc gtgtgaaaag 120  
 tcatgatcat tngaatttct cgagagtttc cgatgtttta tttcgagcgt attgatatat 180  
 tataaccctg aatcggaact cagtgtgaca agttatgacc atttgaattt gacgagagct 240  
 tccgttggtc aatttcgaat atcactatat gtgatgcgcc taaattggac atccgtgtga 300  
 aaagttatga ccatttgaat ttctcaagag cttccgttgt tcaattctga gcgtctcgat 360

acgtgattng catgaatcgg acatccgtgt gaaaagttat gaccatttga at

412

<210> 21176  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 21176

ttcgtcttct tctattgtcc agtcttcttc tggcttcaat tcattagtgg gctgtccttc 60  
tgtgtccaac atcttgggat gttcccagcc tttgatgaca gctatccacg ttctgctatc 120  
cagtgattcg aagaaggcca ccaccccttc tttccaggat tcatagatgg ttccatccag 180  
aatgggaggt ctgtacacta ggctccttc tttctccatg ttcacagaa ttcactctcc 240  
tagatctcac tcagagattt ccagtgcccg ctctgatacc aattgaaatt ctgataccaa 300  
tgccagatgt cccacaagat gtcacgacat cacgcttcag aacatgcaga ttatatttga 360  
gagtatgaac a 371

<210> 21177  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21177

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gcacggaaga atttctccaa gaacaccctc ttaaggatcat cccagctgaa aatagacctg 120  
agagcaaggt agtataacca atcttttggc actccctcca gagaatgagg aaaagccttt 180  
tgaaagatat gatcttcttg gacatcaggg ggcttgatgg tgaaacaaac aatatggaac 240  
tccttaagat gcttataagg atcttcacct gcaagaccat gaaacttggg cagcanatgt 300  
attagtccag tcttgagaac atatggaaca cccttatcag gatattgaat gcataagctn 360  
tcataagtga aatcaagtgc agccatctcc ctaagagtcc tatcac 406

<210> 21178  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 21178

actagtcact taaaaagttt ttgtctttcg taaaaatctt tanaaacaag tcaactggaag 60  
aattgtgact ttgggaaatg tatctatcga aatcagtcac tggtaatcga ttaaattgtga 120  
ctcttcattc tgaattttga anattaaaac gtttagaatg tctggtaatc gattacaagt 180  
gttggtgaat cgattacaca agtttataat gatntaaaac tgttaaacac aagttgtaac 240  
ttttgaaatt cgaaatctga acattttaaa ctctttggta atgattatgt gaaaacttct 300  
tgtggtattc aatgttctga caagcttttt tagtacttat cttgattgag tcttctcttg 360  
attcttgaat cttgagtcct gaatcttgat cttgattatt ctagaatcat gattcttgaa 420  
cttgattctt gaatcttgga ttt 443

<210> 21179

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21179

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agtatgacag tcaccgcttt aggagcaccg tacaccagca gcgcttcgag gccatcaagg 120  
gatggtcggt tctccggaag cgacgcgtcc agctcagga cgacgaatat actgatttcc 180  
aggaggaaat agggcgcccg cggtgggcat cactgggttac tcccatggcc aagtttgatc 240  
cagaaatagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300  
tgagatccta ngtaaggggc cagtggatcc cgtttgatgc tgacgctatc ggccaactcc 360  
tangatatcc gttggtgttg gaagagggcc aggaatgtga gtat 404

<210> 21180

<211> 467

<212> DNA

<213> Glycine max

<400> 21180

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gaatggggta aatttgagc aaactctcac ctacacgag tctatatcat caatctaaac 120  
ttgctcaaac tggttttacg acgaaaattc taccgaatca aaatttgact cctcaacacc 180

caatthttacc ctacaaatgg ctcttgctt cattttggtc atttgthttt ctctcttgca 240  
 cagcccaagc ttcctcataa gtctaaatg acatttcaaa ctaggattaa ctccctgtaa 300  
 cctccaaata ccactaaatc cagacttggc ctccaactc tcacagtctc actctatttc 360  
 cactcataac actacattct cactgtctaa ccctatgtta actctaccct tcatgcctag 420  
 cagthttcca tccacaattt cagcacataa acatcacaag catcatc 467

<210> 21181  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21181

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 aaatcttcag aaacaagtca ctgatgaat tgtgactttt ggaaatgtat ttttcaaaat 120  
 cagtcaactgg taattgatta ccattaaggt gtaatcgatt acacatcaac agatatgact 180  
 tttcatnttg aattttgaaa attaaaacat ttagaagctc tggtaatcga ttacaagtat 240  
 tttgtaatcg attacacaag tttaaaatac tttaaaactg tttaaacata agttataact 300  
 cttgaaattt gaaatcttag cgttttaaaa cactggtaat cgattactac cttctggtaa 360  
 tcgattacca gagagtaaaa ctctttggta atgattctgt gaaaacttct t 411

<210> 21182  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21182

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 atgaaaatac aaaaaaaaag tcctactac aaagactact caaatgcct canaatacaa 180  
 ggctaaaacc ctataatact tgaatggcca aaatacaagg cctaaacgaa ggaaaaaacc 240  
 tattctaata tttaaaaga taagcgggct catacttagc ccatggactc aaaacctacc 300  
 ctaagggtca tgagaaccct atggccttcc ctggatctc tggccaatc tacttgaggt 360

cttctatcca atgcccttgg agggtaggat tgcacacct atcac

405

<210> 21183  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21183

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cctggatatt gagattcact taaaattagt gagaaaaatt gtttccgtga agaaaattca 120  
agccgaggcg cttccgtaac gtttccgtga cgtttccgtg ggtgattttg caaagattnt 180  
caaccgttct tcgtcgttcg tcgttcgttc ttcggtcttc aaccggttaag ttcccgaat 240  
cgaacttttc aattcattct atgtaccctt agtggtcctc atttggttcg cgtgctttta 300  
ttttcatttc atttactttc tgtacccctt tatgacgtgc gttagtcatt tatttaagtc 360  
attatctcgc ctaatcgaaa aataaaataa atttccaccg atcattcgta ttg 413

<210> 21184  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21184

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aattttatcc tttttacata gngttctaga gcaacaatac tctgttttgt ttataatgaa 120  
atctggaacc aattctaaca ctagcaagaa agtccaatt ctaggagcta tggggaaatc 180  
ttagtgctgt gcaagaaaca aggagggttc atgatgtagc ataccgaatg gagggattaa 240  
cagaaaagtt aaaacttttg agaacttgg accacatcag aaaaccaaga ctgcgacttg 300  
aggatgagga agactggaga gatgttagag cgcataatgg cttcccccaa caggggtccc 360  
aaaacatctg cagggcattc agagggaat gcagagcata atac 404

<210> 21185  
<211> 406  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
 <400> 21185

tgttttatga tgaatcaaca atgaaacaaa gggggggnga tgattacaan gangacaaca 60  
 caagaagaag acaaagggga ngaacaaaaa gctcanaaga tcaaagaaca actcaaggga 120  
 atcaagaaca actcaagagt ncaagaatca agatgaattc aagactcaag aagaaagtct 180  
 acaatcaaga atcaagattc aagattcaag atctcaagaa tcaagatcaa gattcaagac 240  
 tcaagattca agaatgaaga aaataactcaa tcaagataag tattacaaag gtttctcaaa 300  
 actatgaata gcacatgagt nnttgacaaa acctttacca aagagttttt actctctggt 360  
 aatcgattac catattggtg taatcgatta ccagtagcaa aatgag 406

<210> 21186  
 <211> 144  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21186

ctnntgaatg ggctctattc aatgnnngag ttgacaagaa aatatcttct ttatctgtta 60  
 tcatacacat gccacagtg gccaaagatg cagtgggtag atctctgann aanmcactc 120  
 atgataggat acctcnncaa agtg 144

<210> 21187  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21187

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 tgtgatataa tcgattactt ctctttctgt aagtgattca gatgtgaaca aagacacttt 180  
 aatcgattac tttgagtatc taatcgatta cattgttctt gagttgtntc cgggggtnng 240  
 gaaaaacact ttaaacgatt aaaaagataa tctaactgat tacttcattg aattagtcaa 300  
 ttacttcttc aattatgcaa ggttttgagg acaggattga tcgggtggta tctatctata 360

364

<400>	21188
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<400> 21189

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<223>      unsure at all n locations
<400>      21190
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8880

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455

<210> 21191  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 21191

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gtgaaagggt atgaccattt caattttctcg agagcttccg ttgttcaatt tcgagcgtct 120  
cgatatgtga tgtccctgaa tcggacctcc gtgtgataac ttatgaccat ttgaatgtct 180  
cgagagcttc cgctgggtcaa tttcgagcat ctcaatatat gatgtgcctg aatcaaacat 240  
ctgagagaaa agtatgacaa tctcaatttc tcaagagctt ccgttgttca attccgagcg 300  
tctcgatatg tgggtgtgcct gaatctgata tccgagtgat aagttatgac aattttaatt 360  
tctccagagc t 371

<210> 21192  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21192

ntcgagaatn taaaattgtc ataacttttc tctctgatgt ccgattcatg cacatcagat 60  
atctagacgc tcgagattga acaatggaag ctctcgagaa tttaaaattg tcataacttt 120  
tcactcggat gtccgattca ggaacatcag atatctagac gtcgaaatt aaacaacgga 180  
acctctcgag aaattcaatt ggtcataact nttcactcgt atgtccgatt caggcgcata 240  
atatattgag aagctcgaaa ttgaacaacg gaagctctcg agaaatttaa atgatcataa 300  
catttcactc ggatgtccaa ttcaggcgca tcatatatcg agacgctcgt aattgaacaa 360  
tggaagctct ggagaattta aattgtcata acttttcaat cggatgtccg attc 414

<210> 21193  
<211> 372  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21193

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tagtttttca gattcaagaa taccacgaag cgataagcga tagagaagat atactgttga 120  
ttaagcacac aacaaaatat aattatgtca gagcataatt tttcaaacct tttaaaaaat 180  
ataaaaaatat taatgatatt tctaataata atattgaaat gtaagagata cttatttctt 240  
ttaagtggat catataaagc ctcttacaaa ttatgagtga gccacttggg tatcaagttg 300  
tttctcatat acattataag acaatgtatc atatacattt tcanatcaaa ataaaaaata 360  
ccatatacaca ta 372

<210> 21194  
<211> 467  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21194

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ttgtatttat tctatttaga ttgttttttc tatgttttgc ttttccgtaa tatctttag 120  
tggttaaagc gtgtatatca gagaaatata tatgggatct atgatgggtn tcagagactg 180  
cattatctat ctgtagtttc ttcaaaggag ttgaagataa tcgtaattga ctgagatctt 240  
gcttggttg tagttttcgt cgattccatt ttgatttttg ggggagaaaa ctatgcgttt 300  
tggttcacac ttgttggcaa aacatttggt taacaatcta ctatttcttc aaggtgcttc 360  
atataatggt attgcagtct tgaattgagt ctcttgagtt atcttgngaa atgatatttt 420  
gaatacaatt gtaaattttg tgatgcanat aactaaataa tctgatg 467

<210> 21195  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21195

agcttgtctc ctctgagttt tccgactatg ctcttgtgtg gtggaacaag ctacaaaagg 60  
agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120

ggaagcggta tgtgccggct agttactcaa aggacttgaa attcaagctc caaaaactaa 180  
 cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
 caaatattga agaagatgag gaggtaacta tggctcgatt tcttaatggt ttgactaatg 300  
 atatccgtga tattgttgag ctgcaggagt ttgttgaaat ggatgatntg cttcaciaag 360  
 caatccaagt ggagcaacaa tt 382

<210> 21196  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21196

tactcaagct tgaatcgaca tccgtgtgan aaggtatgac gatttgaata tctttagatc 60  
 ttccgttgtt caatttcgag cttctcgaca tattatgcac ccgaatcgga tatecttgtg 120  
 aaaagttatg actatttgaa ttttccgaga atttccgatg ttttaatttcg agcgtatcga 180  
 tatattataa gcttgaatcg gacatccgtg tgaaaattta tgaccatttg aatttctcaa 240  
 gagcttccgt tgttcaattt cgagcttctc gatatgtgat ttgectgaat cggacatccg 300  
 cgtgaaaagt tataactaatt gaatttcgca agagcttccg ttgttcaatt ttgagcgtct 360  
 cgatatgtga attgcctgaa tcggacatgc gtgtgaaaag tata 404

<210> 21197  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21197

agcttcttgg attataaaca tgggaccaac tcattttatt tcaaaaaaga agtcgtatct 60  
 agtcaaggtc ttagagacca tacaagtttc ctaacgattt ctaattatgt gggccattaa 120  
 gtctatcata tgctgacaat agccgagaag cccatgaatc tcttcagggg cggagtangt 180  
 gtctgccatt gccttggcct tggctaacaa tcggggaagt tcttgactcc cgttcaaggt 240  
 aagagcaaac cgatccatcc acatggttgc ctcttggtgt aaagagtcga tcacccttcc 300  
 tctagcctct ttttccgcgt atacttgggc atattcgtcc gcaatcctat gctcgtgggc 360

cgcggttaga cctaactctt cttggtactt ggcgatgata gct

403

<210> 21198  
<211> 468  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21198

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actgtcttct tcccgcgatg cttcttttat gtccgcctga gtgggcttat agcctaaacc 120  
atacttccca cgattccctt gggtttttat cagactagtt atgccgccat tgtctttgcc 180  
taaaccatc ccggcttcat aaccgttccc caacataact cgggccatca ttaccgccgc 240  
atcggacaga caaggttgcc caaagaggga gtccacggag gaaatgctga ccacctcaaa 300  
agactggaaa gcggtttcta acgattcttc tgcggcttcc acataaggca tggaggatgg 360  
gcagcttacc aagatatctt cctcgcctga cacgatgacc aagtgccctt ccactacgaa 420  
tntcagctnt tgggtggagt tagaaggcac aactcccact gagtggat 468

<210> 21199  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21199

agcttgctta ataattnttc aataaaatat taattgttat tcaaaaaaat tattagacaa 60  
aaaaaaactt tattttaaaa ttcgttntag acctttaaat gtgttgggct gccctgcata 120  
ggtttaagag tggttggaag aaaaaggggg acaatgacaa actttaatag tgaaaaaagg 180  
aaggaaatgt aagggaaaaa ggaagagaaa catcaggagg aagaagaaaa aaataaggta 240  
acattgtcat gtactcgaca aaagagaatg catacactat ataagtaatg agtntttttt 300  
ttttctcttt atttattttt atcttanata tcaatttgat caacacgatt atgtgataat 360  
ctcttctgat cgacagagtc ttgaggtcaa tatttgacct atgctaaaat 410

<210> 21200  
<211> 304

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21200

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 aggatggaca actcactagt atcttttctt cccctaacac tataaccagt tgtccttccg 120  
 ccataaactt caatntctag tgaaacattg atgggaccac cccaacagaa tggatccaag 180  
 gccgacctag caggcaactn taggcgggggt ttatgttcat taattggaag gttatctggc 240  
 acgtttgtgc cccgatttga attgagagat cgatctctcc tctcgcataca tgttggtctac 300  
 ... catc 304

<210> 21201  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21201

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 tctttgagaa tgaggaggat cttcatagga cttcatccag ctgatgtttg tcngcanttt 180  
 catcatccac cacccttttc ttctgtgcct tctcagttc attggtgtta aacccatatt 240  
 tatgccttct tcccttcatg tcttggttga tcacaacttt agctgaatct cccatcttca 300  
 gcatagtga atctcctatc ttattgtcac atgccacatt atgatggcct gtatctctta 360  
 tgatcgtatg ttccactggc tcaccttcac aatgcat 397

<210> 21202  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21202

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 ctgccaaaagc tgcaacatac cttattatta attggagcat gtgttgatgt tgaagaacgt 120

aaagcactta gcttcaggtg gagttgataa cgaagttgcc atagatgcaa cattaaattc 180  
 tgatgccgtt tgatttagtt cagtctctac aagaaattga atnttttgct ccactgttgc 240  
 catttcttga aaacattntt cctcggttgt tgccatttct ttgtcgcatt nttcttctat 300  
 ctctttgaat ttatcattta attctttcac cttnttcaac atgtcttnt tgcattnttg 360  
 aaattntatt tatttttcaa gagagtangt gtcgtagttn ttctgtgaca atgtac 416

<210> 21203  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21203

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 tcattgctat catctccctc tccatcattg ggggcgtac ttgagctgcc agatcccttc 120  
 atctttgggc atattctttg aaagattcat gtccttctt acacatgttc tatagctaca 180  
 ttctatccgg aaccatataa gaattgtact gatactgcct aatgaaggca accattaggt 240  
 cttccaaga atggactcgg gaaggtttca tattagtata ccaggtgacg acttccctag 300  
 taagactttc ctagaagaga tgcatacaacc aattttcatt ttttgagtat gccctatatt 360  
 tcctgctata caccttcagg tgattcttgg ggcaagtagt cccattgtat ttatcga 417

<210> 21204  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 21204

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 gtataaaaga gggagagaag tggaactttg aagtgtgtct cataagactt tcattcatca 120  
 aagttacaac aagtgttaca catgcttcta tttatagact aagtagcttc cttgagaagc 180  
 gttcttgaca aaacttactt gagaagctac tttgagaaaa cttccttgag aagctagagc 240  
 ttagctacac acaccctgt cataactaag ctacgtcct tgagaagctt ccttaagaag 300  
 attcctaaag aagctagagc ttatctacac atacctctct aatagctaag ctacactact 360  
 tgagatgaga agctggatct tagctcacac ccctaataa gctaactcac cccatgcgaa 420



aacatg

426

<210> 21205  
<211> 355  
<212> DNA  
<213> Glycine max

<400> 21205

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tttggtagca tgaacatct catcacataa gaaggaatag cttgcaccac tgactttatt 120  
aggccactca tcttgctttt gaaaacgtct tctccttcca acctttcagc ttcttccaaa 180  
ctctatctct agcaaaatta aacacttgag tctttgatct ccccaaatg gttggaagac 240  
ccaaataatt tacatgtctc tccactgcct ttaccccata acttatcaag ttcatacaatt 300  
ctggtactag aacacatttg gatacaagag agctaagatt tctctagatt gatcc 355

<210> 21206  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21206

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tattaatgat atggactaca aaaactaaaa atgaattaat gatgataagg ttaattttgt 180  
aaaattatta ttctttttca tttgcttatt agttcttctt ggtctgagta aacaaactgg 240  
tatgggacga caattataat gagatgaagg gagtataaac tctcatccgt ggtgcataca 300  
gacacacaat ttcagttcaa tgcctttgtt tctcttttct taagatggta ttggagccta 360  
tcctaaatct attaccgata acctaccata ttatccatgc accanacca aaaagtactg 420

ggcgtg

426

<210> 21207  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21207

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taattgtttt cgaagtaaca taataactaa acctaaaact atgtttggag acataataac 120  
caatgacaca gaaacaaaaa attttactat ccaattatct ataaactgtg atatctttga 180  
caacaaaatc ttataaata aagcagatgt tgtagattta caaccagcca aagaaaaaat 240  
gattntagga ctcaatttta ttgtacatga taatagatca atcactatta ctaaggatta 300  
tntattgate tctacaaatt cacagatgtc accaataata gatgaactca catcagagtt 360  
gtgaacaaag catggtggta cccctattaa tgtaataat aaatgccctt gtgacac 417

<210> 21208  
<211> 481  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21208

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aatataatac tactatacga ctattaaagg agtgtgtgta agaaaataaa taaattaatg 120  
tgcacaagag ttgaacacaa gatgttttta ttgagggat tcaactttac tagttgactn 180  
taatcgatcat tgttgccttg tttagagttta gatgcttatg tgaggaaatg ggagatattt 240  
tattttattha atttaagata aagtctttcc gttgtttact cttgaatctt gatcaatgat 300  
aaagaacaaa tttggaaatt cgaagaanaa gtaccaaaaa cacctttntt tcgtgtattg 360  
gattatgatt taaaaaatc tggtaataata atgtaataatt taattaagaa ttttaggaat 420  
ttttttanaa agttaacaaa atgaattnt ataaactntaa aaaaatcttt agatattaaa 480  
a 481

<210> 21209  
<211> 369  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21209

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 atacttaagt aaatatatat catatacaaa attataatct aaaatgagtt gtcgtagttg 180  
 tatcattaaa taaatttata aattttatact acaaatacagg atcttatcta tatattccaa 240  
 acatgaatga atatacacta attatattga aaatgcaaac tacaaggcat tcaaagcaca 300  
 aattaattca atattttatat cacaatacac caaaattcaa ccaaaaatta ctgcataata 360  
 atttcaata 369

<210> 21210  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 21210

catgaaaaga cctatgccct ttcttttaac ttctccaaat ggggagtctc aacagccttt 60  
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 ggcttgtagc ctcataacca ctcttgggga gtggacctga gcaaataatca atctttccct 180  
 tgcttgagaa tcctcatgga taccaagctc taagttctta gagaaagcct catagaactt 240  
 ggttgaatcc tccttgggtct ctgtcattac atagaacagc tcaatgcact tcttgaccaa 300  
 gctcttacgg atgaccttca agatcttgat ctggtgcaac atttcatctt gaaatgctga 360  
 gtgggagatc ttcagaatca acaatacccc ttgac 395

<210> 21211  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21211

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 caaaaaatat tattaaatga gctaattaag atattaatat aaaataataa tgaaaaaatc 120  
 ttgctttcta attttacgac aatttaaaaa attataataa gtaaaatata agtcgcata 180  
 ataatttaat aaactattaa tttggccttt ntaaatattt atttgacatt gattntgctt 240  
 ttaattttta gtgagatgga gtgagtcctt taaacattga aaagtattaa aatctttttg 300

tgatatggag taagtctttt attntaatta tgtaagtttg ctctttacat ataataaaaa 360  
 tgggtttttct catatatattt ttttatgaaa tgcgagatga gtg 403

<210> 21212  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 21212

tatataaacac tcaagcttgt gggaagacac tgatcgaatc atcatcatca ccaactcttga 60  
 tacagctctc tctagacgcg tactttgcac gcttccttcc gcacagctat tcttgcaactg 120  
 cggtcgttgg ctctctatgc tctcgggttg ctctctcttc tttacctcct acggtgcttg 180  
 atatacttaa agatggtaaa ggcggagttc ttgcatcccg tatgggttaa ctacctattc 240  
 gctccgtgga tatcgtggat tctattgctt caatcggagc cattcgtggc gccacaaca 300  
 gcaacctact tggttctgtg gaggggtgtc acggtgccgg tggtagtgct ggacgtgaag 360  
 atctac 366

<210> 21213  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21213

atctnatgta tgaagagttc aaaatgagta tgatgggaga attgaagtgc ttccttggac 60  
 tttaaatcaa gcaagcggac gaaggaatat gcatacatca aaccatgtag tgaaaaaact 120  
 tctgaagaag ttcaaggtgg acgatgcaaa gcatatgaaa acccccatgc atccaacat 180  
 tgtacttgga ctggatgatg aatcaacgaa ggtggatgaa aatacatgca gaggaatat 240  
 gatattctct ttgcatctca ctgcgtccag ccttaacatt atgttcagtg tatgtctcta 300  
 tgtagattc caaaaggaac caaggaaaat tcatttatat gatgttaaac gcatatttag 360  
 atatttgatt gaaacttcta accttgggtc ttgctttaag agagaaatcg aatac 415

<210> 21214  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
<400>        21214

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tagatataaa cattgaacag atgataataa cctcaaata atttataaat gtttacatca   60
agtgtcagc agaaattccc aacaaaggat tttagccctc cattacaagg gagtagcttt  120
tagaaatatg agaagggttt tagagaaatt accagatgac aaagtagtgg ggatgtctcc  180
tccacttcta agaacctaga aaataaatct aacacctaga atctacctaa aagttaggac  240
ctttgtctcc ttgtcagct tttcctctgt tctttgcaca caattcatag tcaattcaaa  300
cctctttcac attgtcatag tctcttcacg ctttctcttt ntttctgtgc aaatcaggct  360
taaaaatggc tttctgacct cgaaggcgcg cttagcgcca tctctgcgct tagcgcgagt  420
aagtgatatt                                                                430
```

<210>        21215  
<211>        437  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        21215

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caattgactg tgtgancttt ganaccacct aggaaaacgc gaggcttggc agccatttgt   60
ttgcgacttt tatggaaaac cgcgaggggc tatgggggat ttcgccgcct tcgtacagcc  120
ggagagggcc aagaatgagc acaaaaggcg aatatgaaga tagccaccta ccgcaagtgc  180
ttccagatcg aaccgtggga agaaagaacc tctgaaagaa agggagacat gcaaccaact  240
aaacagtaca caagcaagcc gagaaaggca cctatcatga taatcataag cctagtcggg  300
aaaacatgag cgatccaccg cagcttgaat ccacatcaga gcaaattgaa acaacgactg  360
gattgtgaat gtcgcctgac atatcgcatg gagacggctg agtcatatcc tcacctcgga  420
aattttgaat gacatcg                                                                437
```

<210>        21216  
<211>        357  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        21216

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 gcgttgattt tatacaaata aatcatagaa attcaaaatt atttattcca gcattatcca 120  
 getcacctta naacgaatta atgataatat aatttattaa aaatgaatac ttataacggt 180  
 ataagatggt tattcaacta attaaaaata acaagtcaat aaaaataata acaatagatt 240  
 gggtctacca gatcggcgtc acctccgccc aanaatgtcg atcccacgca atctgcaaca 300  
 attacaatgg ttcatgtata gatgttggtc tcaacttttc aacaaagatg agctcat 357

<210> 21217  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21217

ctntanatga gcttcacctt tctcgcgact atcatgttgt ctgtctcgtg tgcttttagt 60  
 ttatcctana tttatcaacg attagtcaac acaaagttac catctcaact tcaaaatatt 120  
 ttctgcttta aaaacacatc aaaatatatg ctactttaga aaatcaagat caattatatt 180  
 tattttaata atatttttgt ttattttctt agtatagact atatatatct ttaatcagaa 240  
 cattatgaag tatggaggat aaaatttttag cnttgaatct ttaacacatt tacatatcca 300  
 aaaatatatt cattattggt atcttatgtg aaatatnta ttaatttaca atattatact 360  
 gtaactcctt taatgaaaat attntaataa aagaacatga gaccagctta ttaaaaatta 420  
 aaaaatggaa acttatcaca cttaaccaag ctagtcaaaa caaatatta 469

<210> 21218  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21218

agctntcgta tgtgaaatca tgtgcagcca tttcccttag agtgctctca caggggtggag 60  
 gttgtgccat gttctcagaa tggtcaaaat tataatgctc aaaatcacca ataacagaat 120  
 gctcangatg ctcaaaaagg actaaatgat gtctaactaa tcaatgaaat gtectatcta 180  
 tctcangatc aaagggttgt aagttagatg gattgcctct agtcatacac tatattcagc 240

atgcacaact agttgccttc ttatgcaagt aacaatgtag gtttgaacta cggtaccat 300  
 taaatgatat ccaaagact tgaaattntg tgagcaacct tataaaatga tgagaagata 360  
 gcacanaaaa tttcaaaca aaattcaaag tctaactata gaagctaana atgataagtt 420  
 aag 423

<210> 21219  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21219

ccttccctgg ttagtgttnt ggtttgtgtt attggtggtg tttggaattg gatgatttag 60  
 ggggtggcctt tatggatgat tgagtgttct tggttgatag ggtggtgggt aatgaaaagg 120  
 gttaatatgg gctgagtatt gatattgttg agctggtgag aaatttggcc atgtaggaat 180  
 agtagtcata acatgggttc ctccctcctt ctcatctctt ccatttgccc caggcttctt 240  
 attcatcaaa gcaggataat caaattttcc tctcttcaaa cccacttcga tcctttcacc 300  
 ggtgaaaact aaatcagcaa agcttgaagg tgtgtaaccc accatcttct catagtagaa 360  
 caccagtaac gtgttcaact tcattgntat catctcttct ttcgtcatnt ggggcgctac 420  
 ttgagttgcc agatccctcc acctttgggc atattctttg aaagattc 468

<210> 21220  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21220

agcttggttcg tatttgagtc cacggaggaa atgcttacca cctcaaaaga ctggaaagcg 60  
 gtttctaattg actcctctgc ggcttccaca taaggcatag aggatgggca gctcaccaag 120  
 atgtcttctt cgctgatac gatgaccaga tgcccttcca ctacgaattt caacttttgg 180  
 tggagtgtag aggaacaac cccactgag tggatccacg ggcgccccaa cagacagctg 240  
 taggggggggt taatatccat tatttggaag gtgacttgac aggtgtgagg gcctatctgt 300  
 actgggagat cgatctctcc cctaacctct cggcgggtgc cgtcgaaggc acgaaccacc 360

attgaactcg gctntaagtg ggaagcattg aatggtaatt tctccaaagt gctctt 416

<210> 21221  
<211> 459  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21221

cttcgattca atctatgtac ccgtagtggt ccacattggg tntcttgeta ttttattctc 60  
gtnttgttta ctttgtatac cccctcttga cgtgcttgag ccattntact taagtcattt 120  
ctcgettaac ttanaaataa aataaatttc caccgaactt ttgaattgta ttatccatta 180  
acttcggtta aaataaattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240  
agaggtaaaa aataatataa taatcaaaaa gacatcttta gtaaaataaa gcgaanaatc 300  
aatcgggcgt tttctctttg ggatttctca ttcttaatcg aattgattaa taactaaagt 360  
gaaactaaag gctaaaatca attcgcctag tcaagctcgt ccataanaat aggcttttga 420  
agtttgtcat ttcattntct cactaagtaa aatggatca 459

<210> 21222  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21222

agcttattct ggctgaatgc accngnngng cttagcgcac tgatctcgtg cttagcacgt 60  
ggctttgatg ttgatgctct gccagattct cctttgtgct aagcgtgctg aagctgcgct 120  
taacggtgga attagggtag caattaaagc tacatcttga aagggtacca attcacaccc 180  
cctcttaatt tgtgagttcc atcatctttt tcaattggta tcagagctac atcttgtaag 240  
ttactcaaga tcacaatttt tctaaagacg ggctccaaac aaacaatctt taaatcaacc 300  
tcctttgttt gagggagaac attnttcctt tcggcaaaag agaataaaaa tctttattta 360  
attagttgat ctcgatgcat ggaatgccat tgtaaaggg tcctttatac c 411

<210> 21223  
<211> 410  
<212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 21223

aaaacttaat ctgcagatcc ctcttgtaaa gctaagttnt aattctgctt cattcaagtt 60  
ctaaggcaac aatacatttc ccaatgttaa aatcacctaa ctaggcacac aaatgggtga 120  
ttagaccaag agaatacaaa atttaagcac tgaaagaagc attgaacaca agatacaaaa 180  
tcaattagat atgaaataat tgcacagct gttcattaga aatccccaac aagggtgttt 240  
agccagccat tacagacgaa accctaacia taataagctt acaaaaccta agcatctctg 300  
caaaagttgt tcctcttgct gcctctagag ctcttttccc gaaataagca ttgtggcggtg 360  
atgtggaata ttgtgcctg gccttctgtg tgtgttttta ccctaattct 410

<210> 21224

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21224

agcttggttaa gttcccagct tggacaagtg ttgccagac tgtttctgct aagttgtcca 60  
aggaggacat attttttatt ttacaggtga agtttgacat gtcaagtga taaaattcct 120  
atatttgata attctgtcct tttctgatcg ttggaaaacg cattaaagac atgtgtttcg 180  
tttgtctttt tccgcaggtg agtgcagcac acacacgtta ctcttgctta catgtcactc 240  
gaggagtgga cacatattgg agacgcggtg tgtgggtgcaa attttcaggg tgtcatttca 300  
gctcccacca attaccanag agtcgtacct ccacttaaat agagtgtaca tttgggtttt 360  
gatcaccacc atttntaat tcctgctntg aaatc 395

<210> 21225

<211> 467

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21225

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tagtaatata aagcttgta atatagctct ctttgctta aaacttattt gtctttgatt 120

aaatntagac ttagcctata gaacttgaga gtgtaaatth aagcatagac ttagtctatg 180  
 cttaaatttt cattgtggct gaacaactga naatatgtca caatgaaaat ttaagcatag 240  
 tggtgtaaat ttaagcatag acttagtcga tgcattgatcc tttntttctc tgaataacct 300  
 tagcataatg tttaatagca cattaatctg tggttaagctg cttttttctt ataacatttg 360  
 aagggtctgg ctacattgag cacataaata tactgttgta gtagacttca cctcactgng 420  
 aagaccccat aatctacga naaataagtn tgattctgca tttacta 467

<210> 21226  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21226

agcttgtatc gttcattcgt gtgaaaagtt atgaccattt gaatttctca agagcttccg 60  
 ttgttcaatt tcgacctctc cgacatatta tgcacccgaa tcggacatct gtgtgaaaag 120  
 tcatgatcat ttgaatttct cgagagtttc cgatgtttta tttcgagcgt atcgatatat 180  
 tataaccctg aatcggacct cagtctgaaa agttatgacc atttgaattt gacgagagct 240  
 tccgttggtc aatttcgaat atcactgtat gtgatgcgcc taaattggac attcgagtta 300  
 aatgttatga ccatttgaat ttctcaagag cttccgttgt tcaattctga gcgtctcgat 360  
 atgtgattcg cctgaatcgg acatnccgtg tgaaaagtat aaccattnga atttctc 417

<210> 21227  
 <211> 489  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21227

cgtctcagcg tctatgcgag acaganacca acatgctagc tatttcttca agtaccaaga 60  
 agagttgggt ctagccacgg cccacgagca tagaatcgcg gatgagtatg cccaagtata 120  
 tgcggaaaaa gaggctagag gaagggtgat cgactcttta caccaagagg caaccatgtg 180  
 gatggatcgg tttgctctta cttgaacgg gagtcaagaa cttccccgat tattagccaa 240  
 ggccaaggcg atggcagaca cctactccgc ccccgaaagag attcatgggc ttctcggcta 300

ttgtcagcat atgatagact taatggccca cataattaga aatcgtagg aaacttgtat 360  
 ggtctctcag accttgacta gatatgattt cttntttga aataaaatga gttgggccca 420  
 tgtttctact ccaaaaagct tgtgcanatc anactactcc tacatctcat ctctagcatg 480  
 cattttctt 489

<210> 21228  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21228

ttcttctatt tcaataattt agattcattt attgtttaca aattaaacta cgttttcata 60  
 atgtagtact ttatactttt cacacaaatt atttttaatt tataattgat tttattattt 120  
 aaattattag tacatttatg tattgtaaaa attaatcaat taaaaattag tgcatttttt 180  
 tcacacatta taattgattg ttttttgcac ttagttctca ttggcaaagc tttctaattg 240  
 gaaattgcaa attttttaggc gtttttgtgc tttctaattg gaacatttta tgctttctac 300  
 actcatcatg tataaaactnt ttaccacca aaagttgtac tccaataaca ttttccaatt 360  
 ntaaccattc gaatacattc aagtgggtgc aattcttat 399

<210> 21229  
 <211> 481  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21229

tgatcattgg gccaaattca caagtcttag gtaggatgct ttggttttat ttgaacctct 60  
 taattgacct gggttcgctt ttgggtaatt ttagactatt ggcaagtgc ccaaattatc 120  
 acaagtagta aagttaaagt agaagtctga gtgtcgagtc cacagaaact ttatttgtac 180  
 ttaggtatgt gaatatttaa ttagtaaaatt aatttaaaga aattgatttg aaaaggttgt 240  
 gagaaaacag taaaataaat tggcagaaaa ttaaaataaa caaggaaaga aattaaacat 300  
 gaatttaaatt taattaatta aaaacagaat agatgagaaa aaccaatatt atagaagtta 360  
 aattcagaag atgagaaagt tggggactta gcctaagaga gctactcttg atataatatt 420

aatgaatttt ctctaattat gggtattcca attntacacc tacacctact catatactct 480

a

481

<210> 21230  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 21230

atcttttttt gtctaagacg atgcattcaa agaagtcaac tacaacgtca gtcagaatca 60  
tcaaggattc tatcaaggag gtctgccaag gtactatcaa caacgaaatt tctcaciaag 120  
ccaatgttgg agatcccatc caggggaataa cttcaacaaa aaccaatgat gttcatccaa 180  
tagacctccc acacaaggcc caaatctata tgagagaacc accaagttgg aagacacgct 240  
gacacagttc atgcaagttt ccctgtcaat ccaaaagagc actaagttag ccatcaagaa 300  
tttggagggtg tatgtggggc aattatctaa acaactgact gaaaggccca ctgtaacctt 360  
tgttgccaac actg 374

<210> 21231  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21231

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caaaacattg taatcgatta cagctttttg aaaataattg gaacgttgca aattcaattt 120  
gaaaactttt tcaaaacaat tttgctacta gtaatcgatt acaacaatct ggtaatcgat 180  
tactagagag taaaaactct ctggtaaaag gttttgtcaa aaactcatgt gctattcaaa 240  
gttttgaaaa actttgtaat acttatcttg attgagtctt ctcttcattc ttgaatcttg 300  
agtcttgaat cttgatcttg attcttgaga tcttgaacct tgaatcttga ttcttgtctc 360  
tagactttct tcttgagtct tgaa 384

<210> 21232  
<211> 385  
<212> DNA

<213> Glycine max

<400> 21232

attcttttcc aaacaaatat atattgaagc ggtggacacg acaagcaaga tgtgatacgt 60  
 acaatgataa tagtgggagg caaattgatg ttgacccctag gttggagagt tcaaategat 120  
 ataagcaatt atgtccaatg cttatgagat tgtccgatga ggcacatgac tatccggaag 180  
 catgttcttt agtttatcaa ggggtgttag agcttagtaa gaaagtggct gaaattcgat 240  
 tgaaccaaca accacatggt cctcgtgatt ccacacgtga agccacaagg tatgctatgg 300  
 agcctttggc atccaaagga attggatcta agaagagaga tggtaaaagg atgaataata 360  
 taaccctctg ggaattggac tgata 385

<210> 21233

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21233

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 gcattttggt gctaattgatg aagatacatc ctacctttct ttgtcatgac cttttgtgag 120  
 tgagctttgg caatgactta nttctatgta taaagtggcg ctagatcttt cttctccgag 180  
 tgctctctta tatgtataca attgggggttt tagtaagcaa gtatctgaaa gatgcggggtg 240  
 tcaggatcat aaatgatgct tgcgttatct ggattcatat gaataatc catttagaga 300  
 atgtgaatat acccatttgc tcgttaaaat acaacattat ggcatactta gccttgacgt 360  
 aaaggttctc tagactaact atgggtttcta gtgtagagga gttctctatt 410

<210> 21234

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21234

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 actaagtatt tatcacctat acttaataga aaatacttat aacactacaa aataaccata 120

aattggaaga gtttgataca atttatacaa gttttatgca caaaagttag tcgtattcac 180  
 cgactaatac ataaactccc tgttttaatc gatttccagg ctattcataa tcgattacac 240  
 aagtcttttg agaagcttta agagagatac tcattttgat taccgggtcat ccgtaatcga 300  
 ttacacaatt cagttaagac catgtctagt ttttaggagt ctctattnta attggttacc 360  
 aggtgatcgt aatcgattac ttcattcttg aaagtgttc 399

<210> 21235  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21235

cttaccctat ggcttgctc cggatttcac tccccgtgcc gtccttgaag atttgagtca 60  
 agccccctacc ttcgaggggc aactcccacc ttatgacgat tatccccgtgc aagacgatga 120  
 ggaaggagat acccatctcg gccccctgct ccacctcaaa gatccacccc cccatgaact 180  
 accccaacca aacatagtct gccacgttcc atcttcaccc acaccgtaa tcgaatccat 240  
 tcccttcgca gaggataagg gaaagattga tgcacttgag gagaggctga tagcggtaga 300  
 tggccttggc aattacccat tctcggatct agcgaaccta tgtctcgtgc ccaacatcgn 360  
 tatccctccc aagttcaaag taccggactt tgataagtac aaagggacga catcgtcoga 420  
 aaggcac 428

<210> 21236  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21236

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 aatgtatgta tacatgattt tgatgatgtc aaagaagaat ctaacaaggc tacttcaa 120  
 gataagcatt tgcttcaaga ataattcaag attgcttcaa caaacaatc cttgtttcaa 180  
 gattcactaa agaccaagcc ttgccttaaa acaaagtgtt ttcaagacat gcaaggctct 240  
 ggtaatcgat taccaggaag tgtaatcgat taccgaaga cagggttgag aaatagctgt 300

tgaaaaaggt tttgaatttg aattntcaac atgtaatcga ttaccatgatg tctgtaatcg 360  
attaccagca acgaaacttt ggaaattcan attcaaaagt cattaaccct tc 412

<210> 21237  
<211> 227  
<212> DNA  
<213> Glycine max

<400> 21237

tacatttttag atgttgacaa ggcaacctcg atatggcgct gaacatcggt gtacataata 60  
tataaagtag agaaggccta ttttctgtct attagaaaca ttagacaaaac ccctagcaaa 120  
caacgaatgg acggatgaga cctgctactt cagctcatat tgagaaccgc atggccgtat 180  
catggtgtat gagaagagac aatttatcgt ccctaattctc atacttt 227

<210> 21238  
<211> 376  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21238

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tcttcacttg agcttgcgct tgaagagtgt ggccgttaaa gcatttaatt cttgcattaa 120  
atgcacatac tccttcattg tgaaaaacca ttcttatgag ctattgtgtt tatcactcaa 180  
gtagaaaacc acttgcttta agtcagagca ggtatgtcac caaaagtgag tgtcttttga 240  
tggtgttcga caactttcag atcttgaact tcatgtattc ttcatagaat tcgatagatt 300  
ctaggagaat gtctttataa aacaaatctc atgacatgta tcttctagcg tctaataata 360  
cagatgtaga tgtatg 376

<210> 21239  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21239

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ctatcatgtc acatatcaga acattcaacg ttgcaacaa aagaagaaat gctagatatt 120  
 ttattaatag aaataagcat aataattaac ctaaacaatcc catcacgaat atagccttta 180  
 ccaataaaaa cactatgtct agcaataaca actctatttg actcanaaac atccttgtac 240  
 ccttggttga ctaacaaaga agtaattaga aatgtgatag actctatcta aaataggaaa 300  
 attccctaaa gatagctcta gcttcacttg accttctctt aacacatgtg tcatactccc 360  
 attccccatg ctcaaatat gtgtgcttga ttcattgatat anagaanaca attgtgtatc 420  
 atcacacaca tgaacattag ccgcggagtc cataatccaa tc 462

<210> 21240  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21240

ttctttgttt atgagaaata catatattca gagatgaata tcttgaccta caacattagg 60  
 gggctaggta gaggccttaa atgggcttct attangaatt tgggtggataa atataacata 120  
 gatcttctgt gtctgcaaga aactaaaaag gatgtgttag acaaagcttc gtgtcaattc 180  
 ctatgggggc aatctgattt agactgggaa tggcagcctg ccttanatgc tgcagggggt 240  
 ctgttatgta tttgggacaa caacaaattc catgttgatt taaggatttc agataaagac 300  
 ttcattatgc tgggtggaat atggctacct caaatgcaaa gagttgcagt cattaatata 360  
 tatgcccctt gtgatcatgc tggg 384

<210> 21241  
 <211> 451  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21241

ctaattntaa tatgatacat tattgaaagt tttagctntt aaatagtcac tattataatt 60  
 attgttttat ataataatgt aaaactataa taaacagaac ttggattata attttttaca 120  
 tctacagtaa attctatttg taataattca tacacatata caagttaatt taaaccatta 180  
 ttgagatatg gtttttatat tacctaaccg gcactagggtt atacgagagc atcattctcc 240



caactcattg tgcaagttaa tcaatttcct ggtttttaac aaagattcaa tgaaaatgat 300  
ccatcatgaa aaagttcata tttaaaaatg aaccaaccgt attttcacia atgagaaatc 360  
tactaaagtt ttgaattaac catcaacatt gtaaaaaactc aaatntgatn tgnngctgcta 420  
ggatgctcac cgaacttata ttagccatca t 451

<210> 21242  
<211> 75  
<212> DNA  
<213> Glycine max

<400> 21242

tgcgatgcag atcagaaggg atatatttct ttgtaatatg tcttcttcac ataacatgca 60  
acacatttat atata 75.

<210> 21243  
<211> 416  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 21243

agctttttatt atttgaagaa aaagacccat tccatccatt gtttaatagt ctaatgaatt 60  
aaggaaaaac caattaatca tattaacccat ccattattca catttcacia taactcaacc 120  
catgcaatac atttaaatat atttttttaa aatgaataaa ttggattgaa gtatgaatgc 180  
attgttttaa ttagacacat gaatcacttt cccaacttta ttcaacatcg acaatcattt 240  
gtaataatth tcataaatcc cgaaacttta ataacctttt tattgtttac aaactgtgcc 300  
ccccatcaac taataagcaa ttacacact tccagctntg ttgataagat gtttggttg 360  
aatgtattaa cagacaacgg atcgatgctg cttatttcat atcatctatc cgacac 416

<210> 21244  
<211> 481  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 21244

cgactggctg aacaagtntg tagaatatat gtggccgtat cttgtcttgt ttgtagttnt 60

aatatatgct ntaactcttc gagattaaca tctactatac taggcttttg attctccttg 120  
 tttctaagct tgtttgacta tggagatatt ttttaatttat ttaggcaatt tgcaagactg 180  
 cgaagaacat tgcaaacct ataattgctg agcagattcc taaatacaaa attgattccg 240  
 ttgagtttga aacactcaca ctgnggtcac tgcctccaac atttcaaggt tagtaagtag 300  
 atccggataa gaaccttgta attgtccgac aatgtcttgt gaacagtgtt agctgttttc 360  
 accgagtttc tattctcttc tattgcttac aaggggataa atatttgatg tnggatttct 420  
 gcagtcagaa agacagaatn ttgaatctta acctttacaa caacaacagc aacgccttat 480  
 c 481

<210> 21245  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 21245  
 agcttggaaca atggcagtga aatcttgcta aaatcctaga taaatctctt gtaaaacttg 60  
 gatgtgcgag aaaagaacgt acttcccgca cagatgcgtc gtaaggaaga gaagtaataa 120  
 catcgatctt tgccttatcg acctcaatac ctctactaga gactgaatgc cctaagacta 180  
 tacctccatg gaccataaaa tgacattttt caaagttaag aacaaggtta gtctcagcat 240  
 cgggtcaagaa ctctacagag gttatccaaa catgcatcaa aggaagaacc ataaacaatg 300  
 aaatcatcca taaacacctt catacaactc tataataaat cagaaaagat actcaccatg 360  
 cacctttgga aggtgccagg agcgttgcat 390

<210> 21246  
 <211> 475  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21246

cgagtgatat tggtcacagaa tacacttgag gcacctcctc catttcatcc accccacttg 60  
 aattctagtc ggcgattagt taanaagggtg tatattttta cagcattgag gagaaataat 120  
 aatcaaggga ataatcattc tattttcaaa ataataattg ttacagctgt catgaattac 180  
 tagtagttag ttagaggggg taagaaaata aataggaaag actgacagag ggaggagaat 240

aataaatgta agaagagttg gcctctcaaa gagctaagtt aggattgatg cagctcttgc 300  
tacttcatgt attntgataa agaactatcc aaggaagaaa agttingactt acgtgagctc 360  
aaattggatg gactaatcac tagagcaagg agtaaaagat ttcaagaaga gtttgtcaag 420  
agactaaatt ctctcatgga gggaaaagaa gaagaagtga cattcattta tttta 475

<210> 21247  
<211> 399  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21247

agcttcttat cctaggctca tcttggtggt gaagctcctt cttccatggc ttactcccta 60  
gtggatggcg tctcctetca cttcttctcc tttgtcttcc gctgcatctc catggtgtaa 120  
aatcaccatt gaaggacctc attgaagctc aaagatccag cctccataga agtccacaa 180  
gcaagcttcc atcactgagg acatggaaag gatgatgttc gtcacccttt ggggaatggt 240  
ctgctacaag gtgatgtcct tttggcttaa gaacgctggg gcaacctacc aacaggctat 300  
ggtagcatta ttccatgata tgatgcacan aagaaatgaa gtctacgtgg atgacatgat 360  
taccaagtct aaacccgagg agaaacatct catcaactt 399

<210> 21248  
<211> 455  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21248

tatgcagcgg aaatgtaatt atganattga gatgcccga gaatttctat ttccatagta 60  
accatgcatt angtaccatg ttcaattatt attttttgtt gttgtgtgtt tttttttttt 120  
agaaatgggt ttatgatccc aacatggttg gctcatggtg cctaacacat gcaactaaga 180  
atgtagtgtg aagtttccag cttccctttt tttgtttttg tagaggaaaa cacaaggatg 240  
agcaaaccatg aaaacaaatg gtatgcaatt ttgcagatca naaagtttgt tgaacgcata 300  
tgcatgatga tgccatgact catgcaaaat gtgaggctgg aatatgataa cggaaaaatg 360  
caggaacgat atgttcatta tgatgttatg aagagatgct tatgatatga atgcattnta 420

cggaacagag agcccggaat attatctctt cttac

455

<210> 21249  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21249

agcttggtatt ntccagggtt tgttttattt ctcatttcgt ttgatcactt gcatgtacta 60  
gaaattgagg ttgatcagta gtgctataca ataccatata agttgcttct ggatcatttg 120  
tcaaacacca ttacgtaacc tagtactctg ctttaattaaa aaaaaaaaaat tgaggtcagg 180  
ttattttaagt ttatttaaaa aaaaatagggt ttttcttata taaaataagt aatttttata 240  
atattttgat atgtttgttt taaattgttt tacttanaat aaatgttttt tttgtttttt 300  
tttaaaacaa atactatcta cttcttataa aanaaagggt nttataaaaa gcactttttt 360  
taattttttt tttnttagt ttaccctttt ttgttcttgt gacaatatgt 410

<210> 21250  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21250

acccatcaca tgtggtacta ggtggcggtc tggcgatggt gcacaacaag ttttccacat 60  
ccacaaatcg cacataaacc cacaatcccc tgttgccac ctccaactga gtcacgtac 120  
tcccacgtag cccatctcct cgtttctctc aacaccgggt ccccatcaat cctccaagc 180  
ttccccaaca tccaagtaat tcaacattca aacagcacia actatcacag ccaagataac 240  
agggcaaagg cagaaaactc tgcccaaaac accaaccaaa atcacagctt ttcccactta 300  
aagaccccag taacatttcc ttcgttccaa ttcgttaacc gttggatcga ctcanaaat 360  
ttactggaag tctctagtag ataagcctac attntgaccg ttgggatttg ctagcaaata 420  
tccagaaatc attctgcact actctttcca c 451

<210> 21251  
<211> 399

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21251

ttcttatatc aattcagatc aaattgaagt tagcttagct aaaccttggc cagcttagcg 60  
 gaccaaatta gccttagatg caagggttgg gcactaagcg cttgagactc gcgacttagc 120  
 gcatgaactt agcgcgaggc ttgttcttag caaaaggact atttttcaga aaaaaaatt 180  
 tctaagttat ttttcagtcc tttttccaag aaattgaaac ccttatgtta aacattcaaa 240  
 gataggctga tatgctccta tgtacagatc agacaacatg ttcaaaatga ttaatgcatg 300  
 anaaacaaag ataacaaaaa ttcaaaactg ggttgctcc taggaaatgc ttctttaacg 360  
 tcattagctt gacgctntta cctcactggg tgatcttat 399

<210> 21252  
 <211> 472  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21252

aatactacgc ttgagatgag gaagtgtaga atgggtgaaac ttctgctnt nattctttga 60  
 ccacagagtg gtacctggag atatgtcgcg gtggtcagga gaccttgggg acgttaggtg 120  
 gggtgctatt gcccaaaacc aagcttgacc aatcccgacc caaccaggc atagtcagtc 180  
 agtgagaacc tgtgatgtac ctaaacaggc gagctcctgg cagtcaacag ataaaaggag 240  
 caaagactac aaagcatgga ggcttgtgtg gtggctggcc agctatgaac tttgattgat 300  
 atatgggata tggcctctgg taattgatta ccaagggtgg gtaattgatt acaaggctta 360  
 aaaatgaaga caggagacta aaatagtctc tggtaatcga ttaccaaggg gtgtaatcga 420  
 ttactatgct tgaaaacgaa gtcaggaagc taggggagct tctggtaatt ga 472

<210> 21253  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <400> 21253

tttctatatc attttattaa taagaaaaac atcaattggt ctatacaatg atgagaaaca 60

tcaaaacatt atggattagc atagaacctt gacgacatct ttgcaaggac atgaaccatt 120  
 tggttcgcca aaattcacat ttgagatacc tagtaaacga aggttattat tacaaaagtg 180  
 aaaccaatth cgaatccata tatattggag cagcactgaa gcaagtcaca aacatgtttg 240  
 caatcagtct cgaagggtgac gttgttgtcg cccaactcaa tcgtccttta gatttctctt 300  
 gcagcagggg tgttttcagc tttgatagaa gtcttgacac tacaaaagtg cctccataat 360  
 cacaaatggg agctttcatg gatgcattta cattacact 399

<210> 21254  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 21254

ctcacgcttg tatatccgtt agtaagatga ttaagaacta gtcagcgatt catttctatc 60  
 aaaatatatt atgattatgt tttagagccat taatagcttg gtagaataaa acatacccg 120  
 ttcttcaagc ttgttctgtt atagccagaa gtggcagtgg aatataatac ttgtaacatg 180  
 tagaagttaa agaaacttgg tggatgctc taggtgcaga ctataatgaa tttgtaccac 240  
 aaccgatcta aaaggacgtt ctcatgcttc ttaagcgtta cccaaactga accttttaca 300  
 ttggttgtca agcaactgat gtataaagta gatgtcttat atccattgtg tttacgctcg 360  
 atgcaaaaag tattgatttc tatcaaataa ttaatggat 399

<210> 21255  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21255

agcttatgat aatgaagttg ttacaaattn tatcttgaat gaaactgtgc caaaaataga 60  
 tgtcatgaag ttgttacaat atataatgca cttaataacc ttgcaaataa acttcagata 120  
 atcttaatct ttggaaatgt attgatatta ggacaaatgg tcatcacata tgcaacaaac 180  
 atatagccat cctaatttac tcagttacat gaagcttggt atgttcaaaa tatcacacat 240  
 gcaaattgat gacaccttat agataatagc cttagaagtt gattatcatg actcanaatt 300

aagggtttca ccattacact atcatatcat ttaaccacaa cagagaattt aatacaaagt 360  
 cacactaaac ttgagttaca tcacatctac ttatggcact aagtataaac 410

<210> 21256  
 <211> 647  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21256

acgcaaccct atttntttt ttgacattcn ctagctatct agcgtgacat ctattatgaa 60  
 tactcacagc cttgagggaa gaaaattgtc ccttaccctt caacactttg annaatgtgg 120  
 ttttttcata tatgttcnnt aaatgnnncc cacganatnn gtcttatnnt gtagattana 180  
 gaaatgtcat ttcgaagaaa gaacgaaatg ataaatnttg cgcanagtaa gggggccaaa 240  
 tgtaagtgtt cattggtttg cttgaaaggg ttgagggagc ccattgcaga tgcccgaatg 300  
 ggcattgacn ccaagnnnac tcataatggc nncatggtga aagtttgaaa tgggttgttt 360  
 tgcttatatt cangtctctt ttcatttann gatttnnggt ggtagccctt tgcaaaagtg 420  
 gtcccathtt tcgataaacc cagcagggca cnccttctat attcatttct agcangcttc 480  
 attcanatgn ngtagggatt tttgggaatt gatcccttat acggtcattg gcngtttata 540  
 tgccacgata nnatccacac agaaatgcca tgatccatcc cctcttcttg accaacaaaa 600  
 ccggcaacga gaaaggaact ggagtggatt tgataattcc atttagg 647

<210> 21257  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21257

agcttggttaa acaatataag caatgaagaa atgctgattn ttaatgagtc gctcaaaaac 60  
 caaatactgc tcatacccaa ataatacaat aataaataaa aacaaaagaa aaagaaatta 120  
 atacttctct ccgagtgtt aaataccaaa tactgtctcat caccaaataat ggtttctagt 180  
 aagtaatttc accaactggc tgaacttaag attatgcaaa ttgctgaatg gtacaaagca 240  
 tatctcacac gaaaagtacg aaaatagaaa tcaacggctg tccatcattt ccgtcaattc 300

[illegible]

<210>	21260
<211>	473
<212>	DNA



<213> Glycine max

<223> unsure at all n locations

<400> 21260

ntataagcgc gggctctggga gacgaaggtc aagtgttcgc gatttgcgaa gatgatgttc 60

cgagtacttt ggatttggtg cgaccatgcc ctcttgattt ccggctggga aattggcgag 120

tggaagaacg ccccggcatt tacgcaacga gcataatgta aacctttacg gttttaaaag 180

ctctatagtt gggcctaggc tttagagttt ttctttttgt taaggctttg tgtcttttgt 240

ttttgaattt ataatacgag gatctttctt catctgttcc tggctcttac ccattctcat 300

tcatttgcat gtttacttct ttttctgaaa cggcagatcc gatgacgagt cccccgaagg 360

tactaatacc tnggacccgc ctatcgactt cgagcaagaa atgaatcana cggaagatga 420

aggaactgag gatgtgggac ttccccaga actagaaaga atggtcgccc atg 473

<210> 21261

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21261

agcttcttcg atctattggg gaggctacat gcatgagatt gcacgtactt tgataataga 60

aagcttagct ttcagagcaa ttaataaagc aaaagcatta tagagagctt ctataaatta 120

tgtgaaggcg gtgcatgatt cgtattaaat tagacaaaga aagatcataa agatgcatct 180

tcgattggct gaatgattga ttgtaaggcg tcgatctgtg acatatcatt ttgtgtgaga 240

atgatttttg accaggaact tttggagaag aggacttaag tgggattcaa taatagaccc 300

tctttattgc tgaaatggat atgtnttttg gcaactggaa agatagataa atggctcaaa 360

gtaaaaagga gtagtcttaa ttacta 386

<210> 21262

<211> 355

<212> DNA

<213> Glycine max

<400> 21262

catgcaacaa ttgttagccg tggctatacg agacatcttg ccaacaaag tcagggtcac 60

cataactcgc atgtgctttt tcttccatgc tatatgtagc aaagtgattg atccagtaat 120  
 gtttgatgag ttggaaaatg aggccgcaat tatactgtgc cagttggaga tgtattttcc 180  
 ccctgctttc tttgacatca tgattcactt gattgtgcat ctggtcagag aaatcaaag 240  
 ttgtggctct gtttatctac ggtggatgta cccggttgag cgatacatga agatcttaaa 300  
 agggatatca aagaatctat atcgtccgga agcatctatt gttgagaggt acatt 355

<210> 21263  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 21263

tatctttgtt cacaaaagtc acttaaaacc gttttaaggt ccaacgcctt aaacggctct 60  
 ctttgctttt atcggttaac atggaccaag caagaaacga gtcagacaga ggggtgaagaa 120  
 gacgaagacg taggacttcc cctagagcta gagaggataa ttgctcagga ggatcgagag 180  
 atgaggccac atcaagaaga gacggagctt gtagacttag gtgctggcag tgaaaggaag 240  
 gaagtgaag taggcatagg tatgaccccc cccccccca tccgtgagga attcgtggcc 300  
 ctgccgaggg actaccatga cgcctttgct tggttgtacc aagatatgcc tagtttaagt 360  
 cacgacatcg tgaaacat 378

<210> 21264  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations.  
 <400> 21264

tataagaaca aaattgccta aatcatttcc aaatatgcat gtgatttatg aagcattaac 60  
 aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaaagatta 120  
 tgatgatgga tggctcanat tatcaciaag gtaaaacttat cactttcaaa ttgagctttc 180  
 aaaactatca tgacatgtag aggaaaaaca aggatntcaa atcacaaaat gtcaagagac 240  
 ttttattttc agaacaattt cccattnttt gaacatatcc tataattcaa agaaaaatat 300  
 gcaaagttgt acatgcaaac aaaattgacc tataatatta aactagaaac ccaacaaaac 360  
 taacaaattt aacacaaaaca aaactaaca aactagcaaa accaaaacca aagaacactc 420

ccncccccat acttaaacia cacatggtcc tcaatgtagc acaat

465

<210> 21265  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21265

agcttgttct tattaatatg gacataaata gtgggatgtt aagttagttt tacggggatt 60  
tcaatttgaa atctgaaatg tgttcatttt attttgtgaa ggtttttgat tcttctgccc 120  
agcaaagggga tctttatgaa caagttgtta ctctgatagt taatgaagtt ctagagggat 180  
ttttatgcag gccatgctag caatcttgcc actcaagcag accaagttga ggttgagttg 240  
actgttaatt attttcatta ttataactct tgctaattat attcttatgt ttgatttcat 300  
ttgcacttgg aaatttgagt gcaaaacata tgtggactga catgctacaa tggaggaagg 360  
agtttgggtg tgatactatt atgcacgtaa atgcanttgg aatttatggc atttgt 416

<210> 21266  
<211> 464  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21266

ctggagaacc aagccaatca gaatgctaga cgaaatatag atggttatat atgtaacaat 60  
ggtggtaatg acggaccgag gcataaccgg gttgaggagg taaagctcaa tgttcctccc 120  
ttcaaaggta gaagtgatcc agatgcctac ctggactggg aatgaagac tgagcacgta 180  
tttgctgca atgactacac tgatgcgcaa aaagtcaagc tagcagcagt tgaattctcc 240  
gactatgccc ttgtttggtg gcataaatac tagagagaaa tgttgagaga ggaacggcga 300  
gaggttgata catggactga gatgaaaagg gtgatgagaa aaaggatatgt gccactanc 360  
tataacagaa ccatgcgaca gaaactcaa gggctgtccc aagggaattt aaccatggaa 420  
gaatattata aagagatgga aatggcggtta gtgagggtca acat 464

<210> 21267  
<211> 411

<212> DNA  
<213> Glycine max

<400> 21267

agcttagtaa agttaagcac taacaatctc cccctttggg aaattttgtc taaaacatac 60  
ttagacactt cctgagcagg tacgagcagt tatgcaagtg ggatcagcaa ctttcattat 120  
cagagtaatc aagcacagcg gaaattctgc atgttgcaag tcgtttccag gatgtcaaga 180  
catctcacat gacatcagct ttctgcttct gctccccctg tctccatgct tactgcagca 240  
tcttctaaca gctactagtc ttttccagga tgtcaagaca tctcatgtga catcagctgc 300  
tccccctgtc tccatgctct tactgttgca tcttttatca gctactagta gcttacacca 360  
gtcatcatca gcagcagcag tctccccctc aaatcatata catacaactc c 411

<210> 21268  
<211> 489  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21268

tactcagctt cctcaagatc cttttatctc cctgttgaaa tctcatntgt ccattagttg 60  
ngggtggttaa ggtgtggaaa ttctgtgcac gaccccatac tttntgagca aggcatacat 120  
ggatctatta caaaaatggg tgccttgatc actaacgatg gctctagaga ctccaaacct 180  
gcaaaacata ttagatctaa caaaatccac aacaacctta gcatcgttag ttctggtggc 240  
tntaacttcc actcactttg aaacataatg aacaacaagg agaataaaa caaaacaaaa 300  
agagacaggg aaaggcccca taaagtctat acccaaacad caaacacctc acagaacaac 360  
atgggttggtt gaggcatttg ttgtctccat gaaagtgagc cgctgctct ctgacaaggc 420  
tcacaagtgc tacagattct ccacgcatec ttgaagatgg tgggccaata gaaaccacag 480  
tcaagcact 489

<210> 21269  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21269

attcagctcg gacccgggat cctcttagtc acctgcagct gcagcctttt tgttctttta 60  
 tatcagaggg actgatggtc actatgaatg acaaattctt tgagataaag gtagtggttg 120  
 catgtattca aagcccgtag taatgcatac aactccttat cataagttga atagttaatg 180  
 gtaggaccac ttaactnttc actaaaataa gcaattggat ggcctttttg catcaacaca 240  
 gccccaatcc caacatttga agcatcacac tcaatttcaa aagatttttg aatggttggc 300  
 aacgcaagta tggnggcatt agctagctct tgctaagatc attgaaagct cttcttggtt 360  
 ctctcgccat atgaaccaac atttttttga cacttcatta gaggtgctgc aatgtgct 418

<210> 21270  
 <211> 515  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21270

agagatacnt ttgatgcctc gtagatctac acctttatac acacgccagc gaagctaatac 60  
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 taagaatgaa gatcaggctt gtatgcatcc actgtatgga caaatactct cccaacgaat 180  
 acagaatgat ctgctcacat ggtgcccata gcattcaaaa cactttaatg atcagctata 240  
 tcacctatct ccatagatag tgtgcatgca tgtacatcta tcacaaaacg agcagagacc 300  
 attatctgcc taactataac gatgggatcg gacccttcga taattccagc aacatancca 360  
 aaggtgtcaa tccacacgga ttgccctaca ctattctaca ctagcccacc tatattaacc 420  
 ttctgatagg cgcacttata tacctgactg acctatacac taaatgctgc tcccgcgtca 480  
 ttaacacaca ttgccttacg gaggcctaca aacag 515

<210> 21271  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21271

agcttgtag tatttattgg tgtaatttgc ctgttcatt atgctcttaa tgtctttaga 60  
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actgtctttg atattcggtg gttgatattg tgttgcgga ggtaattccg attggattaa 180  
 ctcaccatcc ttcacttgcc aatttggtat gacatttggt gttggatcac ctatgatgtc 240  
 ttgtttccaa gggtaatcta tctctttct gatggcataa gcatgaaacc aataaaagaa 300  
 aaggacatta attntgactc gttcgacaaa ttcgtagaac ttgtcttgga ttgttttct 360  
 gtttgtaacc ttgtaatgtt ggaaaaacca tctctttga ggttcattct tcgg 414

<210> 21272  
 <211> 464  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21272

cgagaactct ctcttaggga attctttctt ctctatcatc attttctatt tcctttntcc 60  
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 gagaggctaa acccttagtt agggctctgac aggcctaaaa agtcaaaaaa tgtattgtat 180  
 atttcatatc tatcaatgca aacaagtgtt ttctttccta ttatcttttc ttacttttaa 240  
 tttcatgcat cattcatcct tacatcattt ttgggggtta ggtgttcgac aaaaagtaat 300  
 ccttaataga tatacaagga aggtcttaca tgtatctatt ttatgagctc gacagagggt 360  
 aatntctaata agaattaana ggaanatgta tctgttcttc ttccaacgt gtgtaataaa 420  
 cataaaattt gaatgcattc tctctctatc tccnactctc ttcc 464

<210> 21273  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
 <400> 21273

agctttatta ttatgccaaa ctcccttcca aaatctgatt tcaagcttaa ataggtggct 60  
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 agcttagcac atgctttcct cgctcaacgg atgggctgaa gcggtgcgct tcgctggatg 180  
 acccttcgca tagcgcaatt tcacaactca tctttcttcc agattcttcc tcgcgcttag 240  
 tcaaggggtg tttcgctcaa cggatggctc gctaagccag aagattggct tagcaagagg 300

gtgaaaatca acacttcaca aacttgccta attaacctga aattgagaga aaatgattat 360  
 taaacacaca aaatggacat actaagtatt tattacctat ctttaac 407

<210> 21274  
 <211> 480  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21274

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 aagagttagg tctagccacg gccacgagc atagaatcgc ggatgagtat gctcaagtat 120  
 atgcggaaaa agaggctaga ggaagggtga tgcactcttt acaccaagag gaaaccatgt 180  
 ggatggaccg gtttgcctct accttatacg ggagtcaaga acttccccac ttgttagcca 240  
 aggccaaggc gatggcagac acctactcca cccccgaaga gagtcatggg cttctcggct 300  
 attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360  
 tgggtctctca gaccttgact ggatacgact tcctttntga aataaaatga gttgttccca 420  
 tgtttctact ccaaaaagct tgtggaatc aagtcactcc cacattntat ctctagcatg 480

<210> 21275  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <400> 21275

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 ggaaatcaga ctttgccttg gttcgggtcca attgatactt gggctgtaac tcctgaactt 120  
 gtcttgaaaa aaattatctt ctaattgagc ctaaattggt ttggaattgt tgagcaacaa 180  
 ttaccatacc gctggtatca ataattatta tttatcaaac taacttataa acaaatgggtt 240  
 tgaaatacct ttgttggtact atttggtttat taaaaaaaat acatatttat taaagaaatt 300  
 ataaattaag taattaaagt atgtaacttt tattattaat tcaaaggatt tgagttaaaa 360  
 gtatgtaact ctttttatat aaagtatcta aacttatc 398

<210> 21276  
 <211> 435

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21276

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gattgttaat tatgtcgctt cgttgcagga gatggggaaa aaggggagaat tgaaagggttt 120  
gttatctcaa ctcaatatct attntgtggt tatctaata tgcaagaact gatcttggac 180  
tgaatttcat ccatgttttg atattgttgt tgttcaatga atttacaatt gttggagaag 240  
aaagttatgt gtttgggaag tttggatagt ttgtatgagg tcttangttt tatttgggct 300  
gaaaccaggg tatecttcag cttagagtcg tagagtaatt tcgtgaggta ctgagatntg 360  
tttaagacga ttatcactcc tagaagatct gtattccata cacacggacc tgaggaccga 420  
acctttgact acatg 435

<210> 21277  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21277

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gatccgggct cctttgaata ttttacagga aagattctat ttcacctgta atccgatttc 180  
gtaatcccgat gatgtgaccg ttttatttca tataaattaa ttccttcttt tatatgtgca 240  
catacaagag ttgggttagc cgtttttttc ttgtacaaaa gtaaattaa ccattttcac 300  
cagtttagcg gctntcgcca ccttcttcta cctctacaat atcccaccac tgccacaatg 360  
cccccttcac gtgtcacctc anggcgtcng acatcctcct ctgtcatgt 409

<210> 21278  
<211> 444  
<212> DNA  
<213> Glycine max

<400> 21278

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 ggcacacttg attatggctt cttattctcc aaagcaaatac ataatacaagg aataaggtta 180  
 attggttttt ctaatgcaga ctatagtggg gatgtagagg acagcaaaaag caccactaga 240  
 tatgtcttca aattacttgg atcaacaatc tgcttgagtt ctaagaagca agaagatgtt 300  
 agactttcaa cttgtgagtt agagtacatg gctattgtct cagcagcttg tcaatcagcc 360  
 ttgttgaggt cctgttgta gaattgaata ttcagcttga ttcagttgtt caacttaata 420  
 tggacaacaa gtctgctata tgtc 444

<210> 21279  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21279

ttcttgtatc atataaagtg gatccgagga actctcaagg acttgggtcaa gatgtctata 60  
 agctgggttg tggagttaat aaatttagta ctaatttctt tggactgcag ctttttccga 120  
 acaaaatgac aatcaatctc tatatgtttt gttcttttgt gaaatacagg attagaggtg 180  
 atgtgaagag ctgctgatt atcacaatac aactttatct gctgaacatc acanaatttt 240  
 aattattgaa gttgtttaat ccacaacaat tcacaagtaa caagagccat agctctatat 300  
 tctgctnttg cacttgatca agcaaaaaca ctctgtttct tgctttttca agagacaata 360  
 tttcttccaa aggatacacc atatccagtg gtggatcgcc tgtctatggg a 411

<210> 21280  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21280

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 caagtaaaat aatccaacta agcataaact aatacaagta gaaggataag aaaaaccagt 120  
 aatgatcaa accaaactgt attttattca tattccatgt agtcttagat acatggaaat 180  
 ttgatcacat gaacccatt attctagtcc ctttttttga cacaagtaaa ttaacaagaa 240

acaacattga gtgacactac ttaattataa caaacaatt aacggaataa gtgatgacta 300  
 gtactactta ttagttgtag tatgttcctg gggtttggaa ccagtgcagtg tatatttaaat 360  
 ttcctttctc ataaatctgg actttggtgt cataagtagc ac 402

<210> 21281  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21281

ttcttcttgt tgttcattga ctccagattg ctgcaaagat agacagagat ctgtatggtg 60  
 atctgcaaaa gaacatagac cacagactct tgcaataagt gcatatttct aatttatggc 120  
 aagctgagtt actaggttga ccaaggcatn caagtttctt tcaagctttt tattttcagt 180  
 agatgaagat gaatccgtgg ccacctcatg gactcctcta aggacaatag catcatttct 240  
 tgcactgaat tgttgggagt tggaagccat cttctcaatc aaatatctag cctcagcagg 300  
 ggtcatatca ccaagggctc caccactaat gagggcagct ngcacacaat ttcttgaatc 360  
 ttttccagta ctcatacaag ctntctccac taagttgcct gatgcct 407

<210> 21282  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21282

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 tgcccaagaa acctgaacc tgcttctccg tgcgtggttc cggcatttca ataattggcct 120  
 tcattttctc gggatctatc gctatccctt tctgacttac gataaatccc agcaacttcc 180  
 ccgactttac cccgaaggta cacttggttg ggtttagctt cagttggtat ttccgcaacc 240  
 ttctgaacag cttacgcaga ttgacgaggt gttcgtctc agtctgagat ttggcaatca 300  
 tgatcatctac gtagacctct atttcttat gcatcatgtc atggaacaac gccaccatgg 360  
 cacgtgata ggttgcccca gcatttttca gcccgatgc catcacttta tatcagaacg 420  
 tcccccatag ggtgacgaaa gtggtcttct ctacatctt 459

<210> 21283  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21283

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 aatatgcac tgcacctgtt gcaagagtct gtggtctgtg ttattctgta gatcaccata 120  
 cagatttcat ccttctttgc agcaatatgg agtcaatgag caacctgaag cttatgctgc 180  
 aaacatttat aatagacctc ctcaacagca aaaccaacaa tggcaaaata attatgagct 240  
 ttcgagcaat agatacaatc caggttggag gaatcatcca aatctgagat ggacaagtcc 300  
 tccacaacaa caacagcctg tccctccttt ccagaatcct gctgggtccaa gcaagccata 360  
 tggttcctcct ccaatacagc agtagtcaca acanagacaa caagcaactg 410

<210> 21284  
 <211> 475  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21284

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 tttggagtta tgtagtatcc tctaggccct gcccaaggca gatagggtcaa gtaagcacao 120  
 aatccaaaaa ttagctacaa ttctcaatta agctcaatca ttacctaag accaaaactg 180  
 agttaggggtg agaaaataag ggtcaaagag atgttaattg agcgaagaag aatagaaaaa 240  
 tattaacta taaatgctca atcaatattt tacatttttt tgggtttattg ctaattatac 300  
 gacatgagtt tttctaaaaa attgatgttg tgaagtgtat gttaacatta gttttttgaa 360  
 aaccaaagtt aacattgagt tcattaacgt tgggtgtttaa ccaatgttga aagttgaaaa 420  
 aaaccaaagt taaaatccta ttttctagta gtgaatcana cnttccaag ttatc 475

<210> 21285  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 21285

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atggatggcg cctcctctca cctcctttcc ttgtcttcc gctgcatctc catggtggaa 120  
aatcaccatt aaaggacccc attgaagctc anagatccag cctccataga agccccacaa 180  
gcaagcttcc atcaagtggg aatcagagca caagagcttc aagtaggtgc tccttaaacc 240  
tccattaatt tttttgcttt accttctctt ccattgttgc ttcttcattt ttctccatgt 300  
atctcctcac atgtcttggt ctanatgttg ttaacatgat tcttttagagt ttccaccgat 360  
taaacttgct atagaagtta gaattgattt tctat 395

<210> 21286  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21286

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tcttgttctt cgtttgaagt cttgagcctg ttggagcatt tagtgcttgt actaaatgca 120  
catcccttct tcattcaaag tccatgccaa taggctagtg tgtcttgtat tttagcagga 180  
aagtcatttc tttcaacata acatgattgt aacaatagag tgtgcctttt gatgaggatg 240  
tgtgtctttc agacagtggg ctccatttat tattcttaag actttgaaag atcccaggag 300  
aatggtttat gcagganaga atctcacaca cagagtatta aatgaaggtc ttanatacac 360  
tacttaaagt ctatgttaga tcgtcttatg gatgcaacat atgaatatac agtcgtagag 420  
atacagaaaa tgatttcata gcatatcaca cacc 454

<210> 21287  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 21287

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agggtctcct tgccttagtc ctttctgagg taggaactca gctgaggggac taccattcac 120

caaaaatgaa acagatgctg attttagaca cccctcaatc cattgaattc atttgctgca 180  
aaagcccatc ctacccatca tataagtgag aaactcccaa gacacaaaat catatgcctt 240  
ttcataatca accttgaaga caatgcaagg cttttggcat cttttggcct cttcaactac 300  
ctcatttgta gtcaccacgc tgtgtagcat atgtcttctt tctataaatg ctgattgcct 360  
ctcatgaata ataaaaggca tgaccttctt caatctat 398

<210> 21288  
<211> 466  
<212> DNA  
<213> Glycine max

<400> 21288

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aacaagtttt ccacatccac aatgcgcgca taaaccacc atccccgtt gccacctcc 120  
aactgagctc acgtactccc acgtagtcca tatcctcggt tctctcaaca ccgagtagat 180  
gcaatcggtc ctgatgtctt gatgatgac atgatgatgt gttgcaattg atgcaaattg 240  
gctgttcaag attaaaattc aagacaatac ttcaagatta caaggcacia catcaagatg 300  
atcactagaa tattatgaag ggaattccta attgaattat cagaggatag gccaaagtat 360  
ttacaataaa aagtgtcttt cagaggctct actctctggt aatcgaacac cagaggatgt 420  
aatcgattac cagtggccaa atacgtgtta taacagctat gaaaac 466

<210> 21289  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21289

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gtggatggcg cactctctct cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120  
aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacia 180  
gcaagcttcc taagggtgtc ctctcagtt ttagacttgg cgatcatgtc gtctatgtag 240  
acttcgatct ctcggtgcat catgtcgtgg aacaaagcca ccatagccca ttgatagggt 300

gccccgacgt tcttgagccc aaaggacatc accttatagc agaaccttcc ccacaggggtg 360  
acgacacatg gtctnttcca tctcctctgg tgccatcttt atctg 405

<210> 21290  
<211> 482  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21290

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aaactatatt atctacacaa aaggtagact tctctatatt tgcataagagg gtgtttttcc 180  
taaggactga aagaacttgc ctgagatgac ctaagtgatc atctaggctc ctactgtaca 240  
ctaaaatata atcaaaataa acaactacaa ttctacctag gaaatccctt aagacatgat 300  
gcataagcct cataaagggtg cttggtgcat tagtgagccc aaaaggcatc actagccatt 360  
catacaaacc aaacttggtc ttgaaagcgg ttntccactc atcacccttt ttcactctga 420  
tttggtgata accactttta agaatacaatt ttgaaaagat attggcacca tgcaactcat 480  
ca 482

<210> 21291  
<211> 270  
<212> DNA  
<213> Glycine max  
  
<400> 21291

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gtttccatca atatggataa catatagata tgaccataat cactgagata aacttcatga 120  
aacaggacct caacatcggg caacatgtcg agcacaatgt cgatgaaact taagacactt 180  
gagcatctca caacaactga atttctatac tctggacgga ccttagatat gaaggcgagc 240  
acattacca cgaactgatc aagtgttca 270

<210> 21292  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21292

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caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaag 120  
attatgatga tggatggctc gaattctcac aaaggtaaac ttatcacttt caaattgagc 180  
tttcaaaact atcatgacat gtaaaggaaa aacaaggatt tcaagtcaca aaatgtcaag 240  
agacttttat tttcagagca attaccatt acttgaacat atcctataat ttanagacaa 300  
acatgcaaat ttaacacaac aaaactaaca aaattatatt agaaccaac aaaactaaca 360  
aaattaaact aatttaacat gactaacaaa accaaaacca aagaacacac tcccc 416

<210> 21293  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 21293

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tcatctatct ttcaatctat ctttcaatat cttctttcat ctctttcaac agatctttct 120  
aaattatttc tcttcattat tctaaaagat tttttcaaca ctttctcttc caagaaaagt 180  
tttttgttca gaaacttggt ctattcatct ttttcattca cttatccctt tgccaaaaga 240  
accaaggact aatcgctga attcttttgt gtctctcttc tcccttaca aagattcaaa 300  
ggactaaccg cctaagaatt ctttggattc ttccctttcc ctttaagacag agattacaaa 360  
tgactaaccg cctgagata 379

<210> 21294  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21294

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aaaaaaaaca taatcaaaca tctatttgct tttatcaagt ctatttcaag tctagtatta 120  
aaattcaata ttttttttta tataatgtta ctctgtaata atttttatat gcatttatta 180

tcaaaattaa aattcattnt aaatgtattg aaatagagta attntaatta aacatataca 240  
 atttttaatt attttaaaac aatattttta atgattntaa agatattaat tntcattatg 300  
 tgataatatt aaagattaat ctcatcgat aataaataaa acactntcat ttagtataat 360  
 taaaattata tattattatc attattatta tcaccattaa aattataaaa cactt 415

<210> 21295  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21295

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 tcttaaccct ctcatgcaac ttctttacaa actctgacct agattccctt tcttgatgta 180  
 taaacaaagt gtccagtggg aggggaataa ggtctaacga tgtagggaa ttgaacccat 240  
 agacaacctc aaaaggggat tgcttggtgg ttctatgagc tccctgttg tcggcaaatt 300  
 ctacatgagg aagatactca tcccaagact tatggttgcc ttttagaaga gcccttgana 360  
 gggtagataa agacctattc actacctcta tttgcccata agtttgtgga tgacaagtag 420  
 t 421

<210> 21296  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21296

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 tttatgtaaa ttaaactagt tttctagggt ttaaccata atatatgtat ttttcaaac 180  
 ttccatttca aagaaaataa tatttattat ttaagtcca aaactcaaag aggaaaaaat 240  
 gcatgcaaac aaattcaaata aataagtatt ggctaaaata tttttattat gaaattaaat 300  
 tttttaagga taaataattt cattntttgt aatatttgat attttgattt ttatttgatc 360



cttanaagta acattgtaac aataaaataa tattttttcan agtttatgaa aaaataatat 420  
a 421

<210> 21297  
<211> 482  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21297

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agagaaaatt cccaatcgaa gagtgggaga aagcaaaaaa aaggaaagaa aattcccaat 180  
caaagatcgg aggaaaacag aagaaatata cagaaagggtc tttggaccag acaatatctg 240  
aacaatacag aattgtcacc aagaaaatat gaaaagaaag gaaaccacga cctanagtgg 300  
tcctctccct ttgattacca accaaaatcc tgtgcgtcgg tgacttggtt gcctcgcgct 360  
aaacaaaaat agaanataaa aaggccaaaa aactcaaag ccaaatttcc caccaagaat 420  
aaccctatcc ccaagaaaaa gtctactga tccatgatca cgcagtgaat ctttgatttg 480  
at 482

<210> 21298  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21298

ttcttataat aataaacttg gccttctctt aattgtcttt gggcttggcg accacgatca 60  
acaaagtact ttcggcacct actatatgtt gacttgacca acgctgttat tggaatgctg 120  
cgacaatctt tcaacacctt attcacacat tctgataggt tggttgtcat gtgaccatat 180  
cgtcgtccag atgtatcgta agccatgctc catttttctt tcgaaatgcg atcaatccat 240  
cttgcctatgg ctggactcag ttgacgaaat ttttctaagt tttgatcaaa cacatgcttg 300  
caaggagtgt acgctgcac aaatttggtt tcatganaag ttatacgtag acatcaaagt 360  
caaaataata taatgtataa aataaacctt acccaatttc ttgaacatc 409

<210> 21299  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21299

cgaagatgat gttntaatgg aggataagaa agagagaatg tgggtgcaca naattgaagg 60  
 aataaaagag ggagagaagt ggaactttga agtgtgtctc ataagacttt cattcttcaa 120  
 agttacaaca agtgttacac atgcttctat ttatagacta tgtagcattc ttgagaagct 180  
 ttcttgagaa aacttacttg agaagcttct ttgagaaaac ttccttgaga atctagagct 240  
 tagctacaca catccctcta ataactaagt tcacctcctt gagaagattc ctaaagaagc 300  
 tagaacttag ctacacacac ctctctaata gctaagctca cctccttgag ataagaagct 360  
 agagcttagc tacacacccn ctataatagt taagctcacc cctatgccca ataacatgag 420  
 tatacagaaa aagtccttac tagcaagact actcaaatg ccctgaatac aatgcta 477

<210> 21300  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21300

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 ttgttcaaga aattctaaaa aattgttcta aaaagttatt aaaatgcaag tcaaggtctt 120  
 gcttttatag actcttcatg tctgggtcaag aaaaccattg gaagagttat aaccttgaga 180  
 aaaacctgaa aaccattgga agagttacat ctcttgactt ttatttcaaa acttgtcact 240  
 ggtaattgat taccaaaacc atataatcga ttacacaaaa cattntatga aaggatgtga 300  
 ctcttcacaa ttgatntga atttcaacgt tcagatacac tggtaatcga ttaccaatat 360  
 attataatcg attacaccat ttaaaaatca attggaacgt tgcanattca g 411

<210> 21301  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 21301.

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atgggcgctt ctctcacctc ttttcctttt cttccgctgc atctccatgg tggaaaatca 120  
ccattaaagg accccattga agctcaaaga tccagcctcc atagaagccc ccacaagcaa 180  
gtttccatca atatggataa catatagata tgacaataat cactgaaata aacttcatga 240  
aacaggacct caacatcggg caacatgtcg agcacaatgt tgatgaaact taagtcactt 300  
gagcatttca gaacaactga atttttatac tttggttgga ccttgattnt aaaggcaagc 360  
acattaccca ggaacttatc aagtgttca gacgatgcan ttaaattgag atcaccatcc 420  
ttgaacaaag ataatcaatt tctgcatcaa acagttgtga tgatagcaga taacatac 478

<210> 21302  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21302

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tgccatctcc atctaatttt acctttgcct tgagatgttt ggtgctttgt ttgttgattt 120  
ctttgtaatg tttgtgagat gagttgtgtg taaacccatg gtccaatgct ttgattggtg 180  
gctgtactag atggctctag gcctatcttt gatTTTTTTT ttacagatta gcatgtcatg 240  
ttgtctctta tccctcattt atacatgctt taacatatgc acaccaacta tntgatgaaa 300  
taacacantt gctattctac gtgttatTTT gatgcttgaa tgggtaatga tatctacaca 360  
tgttcagcca ttattttacg tgtatgatca actt 394

<210> 21303  
<211> 467  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21303

cggattgatt taatctaact agggatcgag gtttagtaat ttattgctca gcatagagca 60

canaaacatg attgagtaga gaaacatctt tatatgcac agctggtttg ttagaaagac 120  
 ctaacacctt tacctactgc tgtcaatctt acttacttgc atttttacta tatttagcct 180  
 agacttattt taattttggt ttaaaccatc aattatcaat gtttctttca acaatgcctt 240  
 atttctgaat ttaaccctgc ctaatactag ttccctgagt tcgatactcg gattcatctg 300  
 ttttaattnt aaatacttga tgaccogatg cctttccatc aaaccggatt tcccttgaac 360  
 atatttgtat gaagaaaaag tggaccaaaa agtatatgca tgggaaatcc aacactggtc 420  
 ttatctgtag tatgcttttg catactaagc atgtgattaa gatcact 467

<210> 21304  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21304

atctntggaa attgattnct atacaaaagt tagtcgtata aagcgactaa caaactcccc 60  
 caaatttaca gttttgcttg tcctcaagca aagaaagaac agttcacttg tcctcaagtg 120  
 acaaagacag tggccaaata aaagaaaatg gtgtttgatt catcaaggac atcaaccata 180  
 tgaactgaat accatggaat gcttaaatca attacttctc acaagcatgc agtctttcaa 240  
 agataagagc acaagtatta gagtcacagc tgaaataagc tagtaagcat gacaganatc 300  
 aaggaaggat catcaaccaa aacctcacag tcattgtttc actcaaactc aagtgtntag 360  
 gcttattcca tcatatacaa ccaacacaag ttccaacctt tgcatttcat ct 412

<210> 21305  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
 <400> 21305

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 aagaacgggt cagacctttg cgagattcct cacggaaaac gttacggaaa cgtttcggaa 120  
 gcgcctcggc ttagattttc ttcacggaaa caatttttcc aagcaaattc gaaagagaga 180  
 gaagtgccta aggggctgga ccccttcctt cttcatttcc tcccctattt ataggaaaat 240  
 aggggaggtg gttgccgccc agtcgcccga ggcgagctca gctcgcccag gcgagcaggg 300

ttgcttcctc cagaagcaac cgccttctgg aggaatcttc tggagggccc atgtgggcct 360  
gggtgctatg tgcaccccca ttcttactaa gtacaccccc etc 403

<210> 21306  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21306

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gtttgtattg ataatcgaaa agataggaag gaggatgggt cttgctagct gaacggcgag 120  
gagaagaagg ttgatgggag attggtgatt catttgagga aggaggagac atggttgatg 180  
gtgaataaag ggacggctcg ttgaatggag gattggaaat agggctacta agtgaatttg 240  
gtaaaggtga tgaaggggat gtggtctcaa aggaacaaa aggtgtgttg gttggtatag 300  
caggtgagga tgggtgtattt agtaagttag tgatggaatt attangaaga ggaggtgaat 360  
gtnnngttgg attgatagga gtagtgtgaa aaggaaaaat tagttcatg 409

<210> 21307  
<211> 370  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21307

cgccattgcc aaanaatatt aatatcacta agtttacttt tatgtatttt ntattccatt 60  
tatatattct tgttttttat tttaattttt accgattaat ttggaattgt atttatgttt 120  
tattttttta gcattcttga attttcatgt ttctaacctt tataattttt tttctatttt 180  
tatttaattt tttttatatg aaatagcaat taaatgcgta ttaagattta agggacacct 240  
catagaggga tatctcatgc acgctcaatt ctcttaatta tgagtcacgg tttgcaaatt 300  
gcaacccttg aaattatagg atagaagagg aaattgatta tcaattcatt tggggtaatg 360  
gatgagatag 370

<210> 21308  
<211> 400

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21308

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 gaaacctcac accgagagga acccttcaat tggagcgaaa ttttccaaac ttacctcacg 120  
 gtttcggttg agaatgaagc ccaatctgac cttcgcagtt ttcttcgagg taaccgtgat 180  
 tctaagcttg ttccttggtg gtttaagctt atccttgcat cattttctga ctttggaacc 240  
 accattgtaa gttttatgct tcctttggaa aaccctagag aaagacactn tgtaaaagtt 300  
 atctttntat gaaatgggtg ttattttcgt gaccttcact gaatcccagt cgcattggca 360  
 tgactnagaa tttcaaata tgctcctttt gtagactcga 400

<210> 21309  
 <211> 464  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21309

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 aatcttttct tttgatctct tgatcttgac ttgaacttgt agtgtaaaaa ataatggact 120  
 aacatgaatc ttttcttttag gtcacatggt tgttggtata ttagaggat gaagactcac 180  
 ccatacgacc aacatttttc aaatggaatc attgatgttt ttagatcggt ggggatggaa 240  
 tgagttcgct acaacaagca ataataaggt ggatggactt gttcaaggaa atgaggatct 300  
 tccaaggata catcatgagt tcaaaagggt atatgatgaa ttntagttta tggattcatt 360  
 gctctcggtc ttactcattt cttggatatt agagagggtg gactagactg tcgttcatga 420  
 tgtattaaac tcttgatct gacttagatg ttatatgtat ttaa 464

<210> 21310  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <400> 21310

agcttttata ggtgaaatca ggtgcagcca tttcccttat agtcctctca cgagggtggag 60

gttgtgccat gttctcagaa tgtgcaaaat cagaatgctc agaatcagaa tgcacaaaat 120  
 tataatgctc aagattagga tgttcaaaat caccaataac agaatgcaca gattcaccag 180  
 ttatacaatg ctcagaatga tcaaaaggta taaaatgatg cctaactgaa attctgatac 240  
 tgaggacaga tgcgtacag gatgtcacga catcgcgctt cagaacatgc agattgtata 300  
 tgacagtatg aacagattat acaagtaa at aacacaagag aattgtaacc cagttcgggtg 360  
 caacgtcacc tacatctggg ggctacc 387

<210> 21311  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21311

nttcacttc cacacaaaaa tgtaattcta attctatcac ttgtttntac tgtggaagaa 60  
 gaggacatgg catatcaact tgctacttca agaaaaatta tagtaacatt aaaatgatat 120  
 ggggtcccaa aggatcctca gtttatacta acatgcaagg acccaataaa atttgggtac 180  
 ctaagtcaaa aacttgatta tgcaggatc tttgagaaag aagtgtgaca tagatagcgg 240  
 atgctcaaaa tatatgactg gagatgcac annatttaca cacatatctc caaagaaaag 300  
 cgggcatgta acataggtg acaacaaca aggtagaatt cttggagtgg gtaaaatagg 360  
 tacannatct tcanactcca ttgaanatgt tctacnttgt gaaggcctta agcacagcct 420  
 gcttagcggt agtcaactat gtgacanagg ctatctagta tcat 464

<210> 21312  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21312

agctntataa agtgtntgtc tccttcgtag tcaaataaca cataacttgg ataatttgag 60  
 gaccattgtc tatgataagc aaaaggaacc tcaatgacgt tctgcaaatt aacatttgaa 120  
 gcatattatt tatttgatat taacataaat aagtaaagt ttaggggtga aagtcatgac 180  
 ctgctcaaga tggaatgacg catcaaatcg gtgcacaatt ctcggtactc ataaatttga 240

003101 301.446

tgggccctag atgagaaaacg tttatgtaat gagtaagtga acaaagatgt acccattgaa 300  
aggagaagat aaatatgcgc aatatcaaac atgtactatg aacganaaga gcaagcatag 360  
aaagatgaag gatgcatgat gaagcaaact cgaacatata cttataa 407

<210> 21313  
<211> 474  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21313

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agacaatgtg aaagttataa ctactagctt atgagaaaac atgaaaaacc acatctagat 120  
ggtgaaatca aacacgctat taatccttga gggaagtata ttactattga ttntctattt 180  
ccatcatttg tgtaataagg catttctttc cttgaactat aaattagtat aattggggat 240  
cttaatgctt aattggacta tctgactcac agatcccaaa tgacctttta gttttttaag 300  
ctctgaattt gcgtttctaa ttgaaagatg aatgactaat gatctgaatt ttcttcttgc 360  
aatggtgaca ttnttggcag acttatgtgt ccaacaatga aaagattgtg catctcagac 420  
cccggaacttc aaccaaagaa ttcaagctaa caagaaaatc caagtttgat aatc 474

<210> 21314  
<211> 416  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21314

agcttggttca ttttatattc tgatgagggt gttccatag ttctcaagac tggactaata 60  
catttgctgc ccaagtttca tgggtcttgc ggtgaagatc ctcataagca tcttaaggag 120  
ttccatatcg tttgttccac catgaagccc tctgatgtcc tagaagatca tacctttcta 180  
aaggcttttc ctcatctctt ggaggagtg gcaaaagatt ggctatacta ccttgctccc 240  
aggtccattt tcaactggga tgaccttaag aggggtgttct tggagaaatt ctttcttgca 300  
tctangacca ctgccatcag annagacatt tcaggcatca aacaacttag tggagagagc 360  
ttgtatgagt actgngaaag attcaagaaa ttgngtgcaa gctgtcctca ccacca 416



<210> 21315  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21315

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 ttgaaatcac cgggtgggacg aggccttgca ngagctgtgg cttgagtgat ggctctttat 120  
 ggtgggggttg atgtcccttg ccggacgggt gtcgagttgg agggggtttcc gacgtgggcc 180  
 gaaaagctcg gaaggtgctg ggtatactga tgattattgt gatgggggtga tagtggtttt 240  
 ggccaagcat gatccgacgt tatggagtga gcatccactt ctt 283

<210> 21316  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21316

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 aacctagtat ttttgaactt tcttttaatt tcttttatac ttcttggtta catatttgtg 120  
 ttgtttaaat atttatttat ttgaactctt tttaaattgt taagattata ctttaattata 180  
 agtttattat aagagttttt gtacccatga aaaaaaaatt gcccttaact cacctgngct 240  
 agtggacagc tcgctttggc gagtgaatgt ctgtagtgaa aaataaaaaat gggtgaaatc 300  
 taatttcacc ccactctcat ttcacacttc ttcttccttc tttttgcatg anaccttagc 360  
 cctcattctt ccaaaaactcg cccaagctac cttcttttcc acaaatectt catt 414

<210> 21317  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21317

gcttcatgat gatgaatcaa gttgattcaa gaagttntga tattgtcttg ttgttgacaa 60

aaaacccaaa gaatgatttc gagattaaat caagatcaaa ttcaagaatc aagagaagtt 120  
 tgattttcaag attcaagaaa agatgaattc aagttccaag agaagaaatc aagaagactt 180  
 cacaatggga agtattgaaa agatttttta aaaaacaaac atagcacaat tttgtttttc 240  
 aaaagagttt tcacaaaatt ttctatgtta ccagagtttt tactctctag taatcgatta 300  
 ccagtttctt gtaatcgatt actagtggca aagtttgatt tcaaaagctt ttaactgaat 360  
 atacaacgtt ccaattgatt tcaaaatggt gtaatcgatt acaagatatt ggtaatcaat 420  
 tactagtgca tctgaacgtt ggaattcaaa ttcaattgtg aagagtcaca tcctttc 477

<210> 21318  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21318

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 cgtcgaagaa cgggttcaaac ctttgcgaaa ttcttcacgg aaaacggttac ggaaacgttt 120  
 cggaagcgcc tcagcttaga ttttcttcac ggaaacaatt tttctaagca aattcgaaag 180  
 agagagaagt gcctaagggg ctgaaccctt ttcttctca cttctctccc tatttatagc 240  
 aaaatagggg agatggttgc cgcccagctc gcccaggcga gccangttgc ttctccaga 300  
 agcaacaacc ttctggagaa atcttctgga ggccccaagt gggcctgggt gctatttgca 360  
 ccccatntnt tactaagtac acccncctctg cttntttttt tgtgattctt ttttcgtaa 419

<210> 21319  
 <211> 306  
 <212> DNA  
 <213> Glycine max  
 <400> 21319

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 gagggttcct tgcattgtac tgaatcttgc tttcaatttc atagtaagta gtaaagtcct 120  
 ttttcatgga gtatgtctca ttaagattcc cctgcatttc acgaatggag ggataaaaca 180  
 tgcaattaca gcttattttg tgaaccaaag tgccatatct aggtttatga taagagagtc 240  
 ttcatcatcc ctagcctcaa actttggacc taccctttca atatgggtca acttcatatg 300

cctttt

306

<210> 21320  
<211> 366  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21320

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ctcacagtct ttagatttgg gagccaatcc aatccttggtg tccggattct cagccactta 120  
ttatagcctc cgatgatccc atcactgctt cccctaagct ttctgtcctt tcttcacgcc 180  
gcctcccatg ccttgccaac tccttggagt accctcgcgt tgtggtcact gaaacctcgt 240  
gcgatgaaag gcgtgatgct ttcgtctgat ggcactcctc tcatgggaca tccttcgcgt 300  
gaagatagaa tcctgattct tccttccttc tagcgaggga accatttaac agacgccctt 360  
ccatgc 366

<210> 21321  
<211> 436  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21321

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tcttcttctt ccttttaaac aaaagatttc aaaggactaa ccgctggga tatcttttgt 180  
ttccccttac aaagattcaa gggactaacc tcctaagaat tctttgtctt aacacattgg 240  
agggtacacc ctttatggta caagtagagg gtacatctac ttgggttggt atactgagaa 300  
caagagaggg tacatctctt gtggatcagt tcaagtggag ggtacatcca cttggatggt 360  
caaagagaac aagggagggt acatccctta tggatctttg cttgtaaagg attttacaag 420  
gttattggaa atccta 436

<210> 21322  
<211> 411

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21322

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aaacacaaaa tgtgatttgc aagtgaataa catgtgtgaa gcattcaaca atggtaaagt 120  
gagtacaaag ataaaccaat tattactcta cttgagggaa tctgattnta cataagggcc 180  
aaaattgtga agctgaggac tatcctcatg agctatgagg gttcaatctg tcccaaaatt 240  
tagcaaatca ttgaaaaaaaa ataaaaaaaa gcatgtgaag catggtgggc acattggtgt 300  
ggatgatgctg atttatcttt gtttgaggtg tcaagggcat ggaaaaantt gttgtgaatc 360  
ttaaaanata gaaatgttct tgtagaaagt gggagctaac tggatcaatg g 411

<210> 21323  
<211> 476  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21323

tgcagccagt acctttatgg cacagaggat cacttctgtg attgttctgt cagcactctg 60  
tgagactatt gatgctgatg tgtcaagggt atttttattt ttattntttt atttngatt 120  
gttagttggt agtttttgtt agaacatctc caatgcatga tgcttaaatg aattgcttaa 180  
agttaaacia tgtttcttaa caattttttt tattanaatg gatgatatgt caatgctctg 240  
tataattgag ttgtttaatt gattattata aaaaaagacc aattttttta tctaaaattt 300  
aatgtgactc aagttaagt cttactttan aaactttaga gctgaaataa attcttgtat 360  
aaagttctta aatctatgtg gcattaattg taggattcac aaatttaaga caaacaattc 420  
atttaagcaa tcatacatga tagacgcttt tgggtggagaa attcgaaccc ccaact 476

<210> 21324  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21324

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 tcacatcctt tcataaaatg ctttgtgtaa tgcattacaa ggatttggtta aatcgattac 180  
 cagtgcacaag ttttgaacaa aaatcaaaag atgtaactct tccaatgggtt ttcaggattt 240  
 tctaaagggtt ataactcttc caatgggtttt cttgtctaga cttgaagagt ctataaaagc 300  
 aagaccttga tttgcattta aaacaatact gacaaccttt acaaacaact tttccacata 360  
 ttctttttact agctntgaat ctcttttgaac attttcttga acttcttctt ctt 413

<210> 21325  
 <211> 480  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21325

nttanattga atntacaatg ttccaattta tttcaaattg ttgttatcga ttacaagata 60  
 ttgctaatacg attaccagtg catctgaacg ttggaattca aattcaattg tgaagagtca 120  
 catcctttca taaatagctt tgtgtaatcg attacaagga tttggtaatc gattaccagt 180  
 gacaagtttt gaacaaaaat caaaagatgt aactcttcca atgattttca ggttttttcta 240  
 aagggttataa ctcttccaat ggttttcttg accatacttg aagagtctat aaaagcaata 300  
 ccttgactta catttaaaag aagaacttac aatacttaca acctttacaa acaacttttc 360  
 cacatattct tttacaacct ttgaatttct tcttcttctt cctttgcaaa aagctntcta 420  
 aactnttctg gttttccaaa ccttgaaaat aaaagtgtgc tattcatctt tttcattccc 480

<210> 21326  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
 <400> 21326

ttcttgtata ctctagattc acttgtcttc tttcattatc atcatcaaaa taccttttga 60  
 agcatttcaa tctttcacga gtaagttttc catcttagtg tgaaagaatt ttatttgaat 120  
 cttcacttac gagcctatga aagatgaaga aaaaattata aaaattggaa agcaaataaa 180  
 agattttcaag ggtgcaaacc ttacaaagtt ccaatgcacc caacttgaac caaaatagta 240

aatcagaggt caacaactac aaatgcaaca aacaacaagt caaagtcagc aaccgtaaata 300  
gctatgaagg tcataagcaa aacgaacagc gataacaaca aactcaaacc agtaacgaat 360  
agacatgaat gagagaacca ataaaaacgt acgtgaatga aggagtgaca tgact 415

<210> 21327  
<211> 378  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21327

tgtcctcggt gacgaanaca atagaataag ccccttcgat tctttcacag gcgtcatcta 60  
ttcgaagaat gaaggggtctg tgtttgaggg tggcgatgag gtggaggaca acctcggtgt 120  
cagaggtggt gttgaagatg gagccgttgt cttcgagggt ggttcggagg gtcttatagt 180  
tgacgaggtt gccgttgttg gccacgccga cggagccgaa gcggttaacc gcgacaaagg 240  
gctggacgtt attgagcatg gattggccgg cggaggagta gcggacgtgg ccgatggaga 300  
ggctgccgga gagctgggtct agttttgatt ggttgaagac ttctgagacg aggccaacgc 360  
cggatgatga ttgatga 378

<210> 21328  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 21328

ttcttgttcc tggaagaact tgttccctgg agctattgag aaaagcttga tgattttaga 60  
gcactgcaag aaaaggggtct attaaggatg caaatgggt gtgtgatcaa tcaattgtgc 120  
ctgcagtata agccaattga ggaggaacat gcttgcatth tgatgatgac aattcacaat 180  
ttattttgaa gagaccagca atgacatctt atctggcagt caaagactgt aaaagatggc 240  
attccatcgg ttttaattggc atcccagatt ttggatcttg tgtcatttag ttttaattga 300  
ctetaacatt aactagtttg ttatttaacc tgctatgttt attaactatt aagaaataca 360  
ttagagccat tacatgcaat cactctttca t 391

<210> 21329

<211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21329

tggctaggct tggctcgttt ccaccctata ttgtatgcta ataattgtaa gcagcactaa 60  
 tgggtagtgg gtgccagcac atggccgcct gctccaccaa tccaacttcc ctttcttaaa 120  
 tcatataaac ataaggacaa atttgtaatc atttatztat caaaaaactt ttttaattca 180  
 attattttta tagttgaaag ctagctatca gactaattct tctttttgtg tgtttgattt 240  
 caaatccaaa atttacattt agagtaaaat cacattaaaa gattatctta tgtaatgtta 300  
 caataaaaaat atataaaaaat aatactagtt tgaccaacat tactaatgta attctatggt 360  
 tttctctaata cttcccttca ttntcaattc aaattgcttc gacttgtttt gttcatctct 420  
 gacatgtggt aattctgcca tatcg 445

<210> 21330  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21330

ttctttttgt gatgatctta gaggaagaac ataggagtaa cttgagcatc caccctggtg 60  
 ctaccaagat gtatcaggat ctttaagacaa tgttttggtg gccaaacatg aagagaaagg 120  
 ttagtgagtt tgtgcatgca tgtttagtct atcagaaggc taagatagaa catcagagac 180  
 cctcaggtaa gctgcaaccc ttagagatac cttagtggaa gtgggacgat atctccatgg 240  
 atttcattgt agggatacct angaccccca aagggtgtaga ttctatttgg tttgttggtg 300  
 aaagattaat caaatctact cactttatcc ccatcaatat caag 344

<210> 21331  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21331

tgcctaatta acctgagatt gagacattat gtattttaaa cactctaaat ggaagtacta 60

agtattttatt acctatactt aacagaaaaat acttataaca ctacaaaata accaaaaatt 120  
 agaagagttt gatacaattt ccacaagttt tatacacaaa agttagtcgt attcaccgac 180  
 taacagtctg tcgatcccta ctatcacaat tgtctttggg aatatcccat gagctcttgg 240  
 ttgaatgagt tttcttctca aatgtgcaag tgtgaaacct caaggattct ctttttcttt 300  
 atatatatat tntttaaaca atcacaagcg tgcattgggtt ccattccaga atcaaaactt 360  
 antagcaaaa ttagtcattc cttgatccac atgggcttta ttgggcttgt aacatggtca 420  
 ggggtaagag gtgatgcant cctaccccg c aagggtatcg gata 464

<210> 21332  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 21332  
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 ttccctttcc ttgttttgaa gctcactaca agccttaagt gaaaaacat gatattacca 120  
 tatccttaag gaattttgga gctttggaat tgttttggga ataagtgtgg ggggtttttg 180  
 tttcattgga caacttggtt tgttgactat gcttcatgat gtattttggg tcatacttga 240  
 tgtacattgt atattgggta aatgttggac atgctgaatg aaatgttgtt tctcaaaggt 300  
 aaaaaaaaaa aaaaaaaaaat caaaaaaaaaat aaaaaatcaa aaaaaaaaaag agagaaaagc 360  
 aataaagttg agtgaataag atcttaaat 389

<210> 21333  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21333

tgcatagcag tttctactac ttaagctggt acatagttgt agtttagttg ttgtactcaa 60  
 agtctttgga tgaagcaaca acttgaagac tttggagtaa accttgatca cattcctcta 120  
 aaatgtgaca acacaagtgc taccaatcta acaaaaaacc cagtcaagca ttctaggact 180  
 aaacacatag aaataaggca tcattttctt agagatcatg tgttaaaagg tggctgctgc 240



attgagttca ttgatagtga gcatcaacta gaagaaattn tcactaaatc ttttgctaga 300  
gatagttttt ttattagaaa tgaactangc atgttagatg catctagcat aaaatgacat 360  
tctgttttgca tagtgtgtga tgcacattgc tactcatatc atttgttntg tttagcttgt 420  
gtcccagttt attgattcat atgcatactc attagtag 458

<210> 21334  
<211> 112  
<212> DNA  
<213> Glycine max

<400> 21334

agcttattct tgcattcattt tgtgacttgg gaaccaccaa tgaaggtata gggcatcctt 60  
ggaataacac taaagaacga gacgttgtac acgctatcct tacgtgagac gg 112

<210> 21335  
<211> 510  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21335

cgcctttgtg cttcgttgac ggacctatga tactcagctt gtccgcagct cgctcatgcg 60  
agcatgggtg ctacctacac agtcttctta cgtctagacg aaccttcagg agggcccaga 120  
tggttatggc tgatataaga atgcacatct ttactatata caccacttg ccgttcctaa 180  
ggatgatccta ttctcgtaca gagatgcctc tgacgaatta cgcctcgact cttgagctct 240  
ttccggactg catccgaacc ttgcggattt cataactcata cccttcattg actatcatga 300  
tgctacgggtg cctcactaat tgtgcaggga tgcttacatt tgacaacgcg tgtgtcaccg 360  
aaccgtgcgg acangtgcgt gatattacct ttagatttcc agcatgtacc ggagttccac 420  
aattgcctac gatgggtgca tgcacctcca tcgacgtact tanatagatg tctacggcga 480  
tagccacgac gacattaggc ttacagtgcn 510

<210> 21336  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 21336

cttattgaga taccctgggg gatatgagac aaatttgatt taggaagtat tttagcccca 60  
 ctttttttaa cttctcttct taaaaggaga gatgttgagt caaacacatt ttttaaagag 120  
 ctcttaaaag gtttagcagt ttaattttat aaagagaaat gaaaacaata gttttcttct 180  
 tcttttttta aagctagggtg acctgggtgaa ggagattttc aaatcaagtt gtcactctct 240  
 ttctctcccc tctctcgtct tctccatggt ctttctatct ctctctctcc ccactttctg 300  
 tctcactctc ttctgttct ctctctctt tctctctctc tctctctatc tctatctctc 360  
 tcctgtctct tttatctctc cgtcttcag ctctcactct cacaagtcac ctctt 415

<210> 21337  
 <211> 219  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21337

tacaatacgg acatggctcc cgatcggaac cagcttcagg gtatgactaa acgagagcat 60  
 gagtccatta aggaatatgc ccaaagatgg agagatctcg cagcccaagt cgtaccgccc 120  
 atgacggaga gggagatgat cacaattatg gtagatacgt taccacacatt ctactatgaa 180  
 aagctgatag gctacatgcc agctaactnt gcggatctt 219

<210> 21338  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21338

agctttctcg gttccatttt ctgcgaaggc aaacattngg aaagttagtt ttaccagtgg 60  
 gacactacta aaaaaaatg gcatacaacc tctcccata aatacaaaca tcaatgtaaa 120  
 tttagagcaa gcttatgcgc atatttcctt acgaacgttc actngcacia gacattctat 180  
 taactaagaa aaatgcaccc atatacaatc aaggcagctt cgttacctag attatttaca 240  
 tgtacttcca aggtgtattt gttacttaca tcacacacat ttccttggtt aaatttacet 300  
 acatgcatac tcaaagcatt ntgggggtacc aaaaattgca catgtgcaca tcttggtatt 360  
 tctaatacct gtacatgcac aaacttcagt atgaatcttg actatctaca caat 414

<210> 21339  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21339

tcttgagatg tgaacctgga tctgtcatat atggcctgng tatgtgtata aggagccttt 60  
 cttttcttag atgcaatttg taaaatataa gacaaaacac aaaagattag cacatgttat 120  
 tttcacaaaa acataaaaaat aaaactgaaa ttttgattaa gcgcttagcg cagcaggctg 180  
 agcttagcgt gccttatgaa attttacaca tgcgctaaga aaaacagact ggcgcttata 240  
 ctgaagacac ataaaatatt ttttctacag attaagctta gctcaacagc tgagcttagc 300  
 ctaagtctac aattttgaaa accaaagaaa gttggagctt attgcagcat ggcgcgctta 360  
 gctcggcctc atcagaataa cactcangct taacgcacag gcgcgttttag cctaactaca 420  
 aaaatttaaa agacaatgag agagttgagc ttagcgcatac ttggcgctta gctcaacaca 480  
 caacat 486

<210> 21340  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21340

agcttatctc ataaagcata tatcaataaa gtactagaga gattcaggat gaaaaagtgt 60  
 ttaacatcac ctgttccaat ttagaaaagga gacaaattta gtcttgaca atgtcctaga 120  
 aatgatatga aacgaaaaac aaatggaagc aattccatat gcatcagttg ttgttgcatc 180  
 tactatggaa gctgaatttg tagcatgttt taaggctaca attcaagcta attggttgca 240  
 gaactttatt tcaaggctng aaattgtcga cagtattgtt aggccactat aaatatgttg 300  
 tgataactct gcagtagtat ttttctaaga atgacaagta ctctaagggt gctaagcata 360  
 tggaattgaa gtactntgtc gtgaaggaag aagttcagaa acaaagagtg tcaata 416

<210> 21341  
 <211> 443

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21341

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tcctcctact aggacgactg agataactgg ggcaaataaa gaggggtgagg atgagggaga 120  
aaccatgct gtgactgcca ttctgtacg gccaaagtttc ccaccaaccc aacaatatct 180  
ttactcagcc aataacaaac tttctcctta cccaccaccc agttatccac aaaggccatc 240  
cctaaatcta ccacaaagtc tgtctaccgc acttccaatg acgaacacca cttttagcac 300  
aaaccanaaa caccaaccaa gaagtgaatt ttgcagcgag aaagcctgta gaattcaccc 360  
caattccagt gtcctatgct gacttgctcc catatctact tgataattca atggtagcca 420  
taaccctagc caaggttcat caa 443

<210> 21342  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 21342

tttcttatta ttgtacgaaa tggacaaaaca tgaaccgtgt tcttgaagaa gtgggtctgc 60  
ctcaagaacc tcatttttct cattatagga cgtatagcaa tgggtggaaac taatgttacg 120  
tagaacggaa agcgatctcc catgtttgct cctaataaag gggtgcacaa aggtgatttg 180  
ctattacctt acctctttgt tttaggtatg aacaaactct cccacattat cttgaaagca 240  
gtggaagctt ggaaaccttt ttgtatggga agaaagggcc ccctcatctc gcacttcatg 300  
tttgcggatg acttattatt gtgtggtcag gcttctacta agcatatgaa atgtactttg 360  
gacactatgc atttgtttgg cgagatg 387

<210> 21343  
<211> 562  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21343

cagacacgaa cagccgaag cacgaattaa gtaaaaaacc aaaacaaacn cacaggcggn 60

nnnttgatgc ctcgtggaca gccacccaaa gaagcgcgca ggaagagcaa cccacaaaaa 120  
 agaaaagacg tcgttttaaaa acacaaaagc cgccaggggg aaagcgcaga agcaacaccc 180  
 aagagngagc aaaacaaaga cacagaggag gagaaaacca cggccgagga agcaacacaa 240  
 agagggcccc acaaggagga ggaggaggac gctaaaagac gggcaaacnc cacacccgaa 300  
 aacaagaaca cacgcgacca ccgcaanaag acgacgcaaa cggcaaccaa anaccggcaa 360  
 aacaaacaaa ccaaacgaaa agaaggcgac accgaagagg accccgggac agagaaccga 420  
 agacagaaag accccgcgga gggcccagaa gatagaggga cgaacaagag acgagagcga 480  
 caccggccca gcgggaaacg acacaaaagg acataaaacg gcgacacacg ccagccgaaa 540  
 gaggaacaag accacaaaag ag 562

<210> 21344  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21344

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 gcttgccctc gtagtgatg atattgatta gttttctcag tcttactgta acgatattgc 120  
 catgaaaaaa ttcattgaca agaaaaactg gagaaatatt ttaagtctgt cggaattcgt 180  
 gattcctgag aattaaattg ttttttaaat tgagcaaadc cttgttgaac ctgctctgag 240  
 aaaatctccg gaatagggcc aaagaaatcc caccattgta agaaccaatt tgggaaatta 300  
 tagatttgtg tggttttgaa atatattaac catgagtgtc tgaagcgggt gtnttggtgc 360  
 caaaaaacct ttgtccaagc atcaacataa tccaatagg tataacctac 410

<210> 21345  
 <211> 443  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21345

acactataat actcagcttg aactattggt gaggtagact agganaagag aggttggttg 60  
 tttaattcta ctcaatattc tcaatattag aaaataaatc aataaaataa gaatttaaca 120

tgtccttaat ttgatgatcc ttctctatcc attgccctta agtatttctt aacataagaa 180  
 tcttatttct ttttcttatg ttgatagtct tgagatgcta gaatctctgtg tttctgtctc 240  
 catcttggat ccacttgggt cttgattggt gaaaccaatc aagctcctcc tgcttaagga 300  
 ttgcatcata ctcathtagc cctttttcca ttcacaacca anattgggtg gatctccctt 360  
 cataaatctt tttttggatc tctcccaacc tattaatgac tctctgcttt ctatatctaa 420  
 tgcaacaaaa cacctttctc ttc 443

<210> 21346  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 21346

attctttgat ggttttgaga agaaatcaca tgtttgtcat catcaaaaag ggggagaatg 60  
 tgaatgtatg tatacatgat tttgatgatg tcaaaagaag aatcaaaca ggctcatttt 120  
 gcttcaagat taatacaaga ttgtttcaac aaacaaagcc ttgattcaag atttcttcaa 180  
 gatcaagcct tgcctcacia tgaaagggtt caagtcattc aaggcacatg taattgatta 240  
 ccaatacatg taatcgatta ccaatgggtt gaaagtgtgt aatcgattac acatcatatg 300  
 taattgatta ccagagactc tgaacgttgg gaattcaa at tttaaatgaa gggtcacaac 360  
 tgttcaagat aaacaactat gtaatcgatt acactaatc tgtaatcga 409

<210> 21347  
 <211> 630  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21347

cggcaacgat ggggnntttg tagacnatch ctagctacat anctcgacat ctatttagaa 60  
 tactcaagcc ccttgaagtg acangnnttg actanatacc tnntgtaatn ntagttaaag 120  
 ttttatgata tactnntggt agtnttgtca natannattg anacaccana tttcatgtgg 180  
 ggtagaagat gaaactcagt atttaaactc nnnttgtaac cttaatattg gggttccttt 240  
 ttgtgttttn tcttgggctt taanagtgga ccatanaggg gtttaannna tttgaatttt 300

[illegible]

atggtctcct aagattataa gaatcatgtg atgtttaatt caccacagtc atactgtgtt 360  
gaccaccgcc aaatgtcgat ttttacgaat ttttctaagg atgaccatgc 410

<210> 21350  
<211> 388  
<212> DNA  
<213> Glycine max  
  
<400> 21350

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gacaatagca tcatttcttg cactgaattg ttaggagttg gaagccatct tctcaatcaa 120  
attcctagcc tcagcagggg tcatatcacc aagagctcca ccaactagcag cattaatcat 180  
actcctctcc atgttgctaa gtccctcata gaaatattga ggaaggagtt gtcagaaat 240  
ctggcggtga gggcagcttg cacacaattt cttgaatctt tcccagtact catacaagct 300  
ctctccacta agttgcctaa tgctgaaat gtcttttctg atggcagtg tcttagatgc 360  
agggaagaat ttctccaaga acactctt 388

<210> 21351  
<211> 477  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21351

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aattagagtt tatctctttt atcttagtga gagtgattct cctaaattct tgagtgattc 120  
aagaacaccc tggctgtatc aaaggacttt cacaaccttt gtgtgttgcc ctgcaggaa 180  
agagtgattc tttccttcct atcatctcca ccctgtttct ttcaaaccac aattccagaa 240  
aatccacctc tgcccagaat tatctcgtgg ccataactcc cattttacac actcaaatta 300  
agtgattgtt gagcctaaat tgactttcaa aacgagacct ttcacctcgt tttgaaatca 360  
cctcatttgg agccctgtag cntagttat tgcatttct atatntctgt ccagccacca 420  
cttaacctac attntaccat cccattcatc cattttatgc caagaaccac cttatta 477

<210> 21352  
<211> 414



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21352

agcttatttag aacaaaattg cctcaatcat atccaaatat gcatgtgaat tangaagcat 60  
caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaag 120  
cttatgatga tggatggctc aaattctcac aaaggtaaac tcatcacttt caaattgagc 180  
tttcaaaact atcatgacat gtagaggaga atcaaagatt ccaagtcaca aaatgtcaaa 240  
aactttttatt ttcaaaacaa ttaccatttt cttgaacata tcctatgatt canagaanag 300  
catgcaaagt cgtacatgcg cacaaaattg acccaaaata ttaaactaaa aatccgacga 360  
aactaacann aataacanat taacacaact aacanattaa caaaaccaac aaaa 414

<210> 21353  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 21353

tgtctcagcg tttatgcgag accgaggtct atatgttggc catcatcagc atgtaccaag 60  
aggaattaaa tctagccacg gtccacgagc acaaagtggc ggacgagtat gcccgagtgt 120  
acgcggataa ggaggctaga ggaaggtga tcgactcgtt acatcaagag gcaacaatgt 180  
ggatggaccg atttgcctctt actttgaacg ggagtcaaga acttccccga tagctggcca 240  
aggccaaagc aatgggtgaac acctactccg cccccgagga gatccacgga cttcttattt 300  
attgtcagca tacgatagac ttaatggccc atataattaa gaacctctat gaagtttgga 360  
ttgtcactca catcttgact agttataact ttctg 395

<210> 21354  
<211> 352  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21354

agctttttgt tnttccctc tcaaattgac ttctcttgaa agacttgaac tttcatagtg 60  
tcacagtctt gagagcttcc cagaaatatt aagaaaaatg gaaattataa cagaacttgt 120



tgcaaaaagc tcaagct

377

<210> 21357  
<211> 448  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21357

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agtcttctgt ttgccaattg catttggaat ggcctgttcc cgaaaatact tccttctctt 120  
gagcttctctg atcatcctga tcttcttcag ccgtttgggg tcaacaactt tcttgctttt 180  
ttccaatatc tctttccttc cctccttata agcttgaatg gttttacttc tctgatcatc 240  
tggttaataaa gccaaacttg aaaatatctt gggactcact atctcaagtt tctcagtaat 300  
ttccttgaat gctggaacaa ggccacgcct tatgaagcac ccttctataa gccgcacgt 360  
atttaactcg gggagactat gagcatcttt taactccaga tcctagcaaa atgggtgagtc 420  
atttaaccac atcctgagag agtgagcc 448

<210> 21358  
<211> 342  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21358

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tggaacaac aaacttgaga gtgccatgct agatctagga gcatcagtta gtgtcatgcc 180  
tctgtccatt ttcaattctt tatcttttgg atctttgcaa tctacagatg tggtgattca 240  
tttagcaaat agaagtgttg cttaccccg t angtttcata gaggggtgtg tggttcgggt 300  
tggtaaactt atttttctg ttaattttta tgttcttgat at 342

<210> 21359  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21359

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cctcagtgag agtagtcgtt tcattcgcca gatgagtgac gaggtcgctg agctgggtgct 120  
tgagagcaga aacctcatag tccctatctt tgaccagcaa gtcgaagtgg aggttcattt 180  
cctggagctt gttcttgaaa aagacagaaa cgacgacgtt ttggaggctg aaggtgaggt 240  
tggtgttgaa tgtgacggcg gactagagag agtgaatttg ttggagggtg tgggtggtct 300  
ccttgagaag gagggcattg aggtttttga ggttctgaat ctgcagttct gaggaggagt 360  
catcaacat ggagatgggt tgttgttctg ctttggggtc cagagattcn gacatacata 420  
gacattctct gccagagaga ggg 443

<210> 21360  
<211> 364  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21360

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tgcatgatga cccttaacac tgtaaccgct gagattccca tatgctggga agtcattaat 180  
ggtagaaaaa agcattgcac gcatttcata cgtctccttg cgaaacgcat canatactac 240  
aaccctctcg tcccacaact ttctcagatc ttcaaccaac ggacttagat aaacatcaat 300  
gtcatttcct ggctatcttg ggcccgatat catcatagac aacatcatgt attttcgctt 360  
catg 364

<210> 21361  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21361

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agcttgtagg	attattgtgt	acttatcaca	tgtgggtacta	ggtggcggtc	gggcgatggt	60
gcacaacaag	ttttccacat	ccacaatgcg	ctcataaacc	caccatcccc	tgttgcccac	120
ctccatctga	gctcacgtac	tcccacgtag	cccatattct	cgttttctctc	aacaccgggt	180
ccccatcaat	cctcccaagc	ttacacaaca	tccaagcaaa	acaacattca	aacagcacia	240
gctatcacag	ccaagcaaaa	cagggcaaag	gcagaaaact	ctgctcaaca	caccaaccan	300
aatcatagct	tttctcactt	aaagacccca	gtaacaattc	cctcgatcca	attcgttaac	360
cggtggatcg	actctaaaat	tntactggaa	ggtctatata	cataagacta	ca	412

ggtgaagctc cttcttccat ggcttattcc ttaatggatg gcacctctc tcacctcttt 300  
 tcctttgtct tccgtgcat ctccatgggtg gaaaatcacc attaaaggat cccattgaag 360  
 ctcanagatt cagcctccat agaagcccca caagcaagtt tccatcacia gtgatttggg 420  
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<210> 21364  
 <211> 373  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21364

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 ccgcattgctc tgcatttctc tctgtagtct cccttaccag agtttatttt acattcttat 180  
 ggagtattac actactcaag taagactgta acacatggca ctgcgggtga ttcaaaataa 240  
 attattaaat taaatnttaa cgggtacaaa actttgtaga gtattagctg gggattggga 300  
 gcatattaga atttctctc tctcatagcc tgcactcttt gctctttctt gctcccacat 360  
 tatctnttca tgt 373

<210> 21365  
 <211> 451  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21365

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 tattctgctg acaaaaaaaaa tataattgtc gatgaagacg aagacaggat gcggaggact 120  
 ataaaacaaa acccatagta aaggtaacga cgcaatgagg agaaaaattc ttgtgcagaa 180  
 aaaacacgac agctaattcca acaattattt aataataaat taagttatca aatacactaa 240  
 taattaatta atgggcaaatt tcatatattt cattttcttg tatctcactt ttattttattt 300  
 attgcacaat catatgtatt actaaatccc tttgttacaa tttactggta ttagttaatt 360  
 ntttaataca ataaacatct ttctgattnt tttaatatTT tttaaaaatt attctactta 420

tatatntttt ataataatta aatcttatat a

451

<210> 21366  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21366

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aagaaactat ttacgctata aatagaagca tgtgtaatac ttgtgggaac tttgatgaat 180  
aagtcttatg agacacttca atgttcaact tctctcccta tctttccttc attcccacac 240  
cattttttnt ctctctctct ctcatctctt ttctccattg aagtttcttc tctaagctac 300  
ttaatcaaaa cactctcttg gtggtgaaat ttcttcttcc atggcttatt ccctagtgga 360  
tggtgtctcc tctcacctct 380

<210> 21367  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21367

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actaaaacta ttatgctttt cctagaatgt aaagtgtaat tgcacatatt ctgataggag 120  
ttacaaagaa ttgatggcca attgcactat tcttggaaga ggtaaggctc gttatagcaa 180  
aaagcttgag aagggttaaag agaagatcac aaaactgaag gtaagtatgc tccagaaata 240  
cattcaaaac tgcaacagct cttgaaccaa atacattcaa aacaaaaagg cattatcgaa 300  
gcaaattcaa ttgctcagaa ttcaaattag aaagcttatg gcagaggagc atgatttgtc 360  
taanactgag ccaaaataga acacgaatat gatgttaatg ctagagaata tcaccacaac 420  
cacccctta caagtacact acat 444

<210> 21368  
<211> 345  
<212> DNA

<213> Glycine max

<400> 21368

caagtgtcta acagactaca tgttatgtgc caaaagttga gctttcacat agaaaatgaa 60  
attacagagt catttacata tactcttaga atgatgtagc aaaaacaaag cttttttgtt 120  
aatttcactt caaatcagag aacactctta acgtagtaag actagttaga acaaccgcat 180  
tattttttct ttaatttaca gtagtacaat tatgcggaaa cctcagttac tgcaagagca 240  
agagtctctg gcacagtcac ggatgggtca gccactactg gaggtgcaac acaagactgc 300  
aacaactgag tgtaatgaaa ctcaatttgt agcctatgat gaaat 345

<210> 21369

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21369

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tttcaggaat taaattgtca tcataaaaaa gggggagatt gtagaaacaa agactttgtc 120  
tttgatgttt tgatgatgat cgtgatgata tgatgaaaac gcgcttctca agtttaattc 180  
aagacaagga tccaagaata caagatacaa catcaagaag atctctagta ttttaggaag 240  
gaaattccta attganatag caaaaggttt ggccaacaaa ttacagttaa naagtctttt 300  
tcaagagatc tactctctgg taatcgatta ccagaggatg taatcgatta ccagtggcca 360  
aatggtttac aacaaccatt aaaaatttg 389

<210> 21370

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21370

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tagcgcacatc tccacgctaa gccactgct taagggtgcaa cttacaatga agatgttggg 180



cttagcgag cgatgtgag ttagctgaac cattcagcca atcaattang ggtctttgtg 240  
cttagcgtga gcaagctcgg ctttagcggt gaaaagatgg cgcttagcac aaggttngcg 300  
cttaacggat aagcaatctg aaattnttct aagtcatttt ctgcttatct cttcacacat 360  
aatttaaaaa cctntnttg tcattactac ataagctgaa at 402

<210> 21371  
<211> 436  
<212> DNA  
<213> Glycine max

<400> 21371

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ggaatcttct ggagggccca agtgggcctg gttgttattt gcacccccct tttactaaa 120  
tgcaccccat ctatTTTTTT gataattctt tttccgtaac gttacgaaac tttgcgactt 180  
togtaacgat acttattttc cttccgcaag gttacgaatc cttacggatc atgtatttac 240  
tttcttttag ctttcgaaga agttacggaa actcacggat tgcacaaaaa cacctctttt 300  
cgatttccgc cacattacgg aatttcacgg atcgcgcaag cctgcttctt tttgatttct 360  
gagacgtctc gggactttat ttatttcata tcatcaagta ataatccccg gacgaaatta 420  
tggtatgaca agcatg 436

<210> 21372  
<211> 288  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21372

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ggacgatgtt cataagacgg ctttctgcac gcaccaggga cactacgaat tcagagtgat 120  
gccgttcggc ctctgcaacg cgccgtcgac gttccaggcg gccatgaacg ataccctcaa 180  
gcctttcttg agaaaatacg tggccatttt cttcgatgat attttggtgt ttagctccga 240  
tttggacacg cacgtcacac accttgaatc cgttctagat accctctc 288

<210> 21373  
<211> 440

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21373

ntgacatcaa aatttgTTTT cCctcttggt tGttgctcta ttggaagaca aaaaatgatt 60  
gtctacaagt acatgcCctg nggtgctctt agtcaatatt tGttaaattg gaaagctgaa 120  
gggttacaac ctctggattg gagtggaaga caaggctaag aattgcCctg gatgttacta 180  
gaggtgtcaa atattctatt gcatgagcaa ataaaatTTT atccatagca atataaaatc 240  
atctaccatt tCgttgggag aagatatgca tgccaaagta tcaaactTTg gattggTtcg 300  
gctTTTactg gaagggaaga attcatgtca aaccaaacta aaggctggaa ctattgtata 360  
ttggcaccta agtatgttat gagggacaca ttgcaacaaa ggtggatgta ttagtTTTca 420  
atgcaatcct tatgtagatg 440

<210> 21374  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21374

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cCctagtgga tggTgcctcc cctctCctct tctCctttgc cttctgctgc atctccatgg 120  
tgaaaaatca ccattgaagg acctcattgg agctcataga tccagcctcc atagaatctt 180  
cacaagcaag ctccatcag ctgtcttact ggTTtagcct caccctctaa atntatccga 240  
tgcatacatg tggatgggct aataccacca atgtccacca nggtccaacc tatagccttc 300  
ttatgcttct tgagaactga taacaacttc tCctcttgct catcaactag ggaggcagat 360  
ataattactg ggaaactTTT gttatcatcc aagcaagcat 400

<210> 21375  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21375

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 ctcgaaattc aattgggcac accgttgga tttgcgagat aatattcttg gagggagaaa 180  
 aaggaatctc atgaagacaa tacaagtga ggtttcaatc tcttctccgt ctctctgacg 240  
 tttgggaatt ctattggagc agtaggagga ataactgaag gaatctcang gaaccgctag 300  
 agatgctgct atccctggct gaagacacgt gagtccgctc agaggtaagg gatgagttat 360  
 tcacaattgg gaattagtga gaacatgtgt agggatcctt agagatatca attggaatga 420  
 gt 422

<210> 21376  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21376

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 tttgagaact cgcaatgatt gggaggcggc tttcactttt ttcttgtggg ctggcaagca 120  
 accgggggtat gctcattcga ttcgcgagta ccattctatg atctccatcc ttggcaaaat 180  
 gaggaagttt gatactgctt ggaacttaat tgaggaaatg agaagaggta taactggtgc 240  
 atctcttgct actccccaca cactgttgat tatgatcagg agatactgtg ctgtacatga 300  
 tgtngcaagg gctatcaata ctatctatgc ttataaacag tataactctc aagtgggcta 360  
 gatgaattca taaccttctt tc 382

<210> 21377  
 <211> 353  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21377

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 tccttaattt tttattaact gagaaatctg ttttagatgca aaagaataag ttttttttag 180

taattgttaa tgtctttttg aaacactttt taaaataata tcttttaaaa ccttagtcac 240  
 taactgttta tattttctct cattcatata tccaatatat ttatctaatt tattaggtac 300  
 actttgtaaa taaatcatta ataatttttt tttcatttta cattttcagc tac 353

<210> 21378  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 21378

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 cagatatcat aagaaggggg gttgaattaa gatattccaa actacttccc caattataaa 120  
 tctatatcac tttttattca agttataaat gcccttaata atgaacttct taaatattga 180  
 ttcacataaa acactctgaa tatgactata tagcaataat atacaaagga gattaagaga 240  
 agagaaagtg ccaactcaga tttatactgg ttgggccaca cccttggtgcc tacgtccatt 300  
 ccccatgcaa cccgcttgag agttccacta tcttgtaaata gccttctaca agctctaaac 360  
 acac 364

<210> 21379  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 21379

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 cttcatggaa tgggtcaacaa tattttatat cattcataga cgattactct agatatgcat 180  
 acttgtttct tatacatgaa aagtcacaat ctttggtatgt gttcaaaaca tttaaagttg 240  
 aagttgaaaa tcaactcaac aaaagaataa agtgtgtcag atctgaccgc ggtggtgaat 300  
 actatggcat atatgacggt tcaggtgacc aacgtctggc gccttttgcc aggtacctag 360  
 aggaatatgg aatcgtccca cagtacacca tgccgagggtc acctatcatg aatggtgtgg 420  
 ctg 423

<210> 21380

<211> 397  
 <212> DNA  
 <213> Glycine max

<400> 21380

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 attgtaatat tttcatgttt gactaccttt attgatgttt atgggttgggt ttgcagacta 120  
 agacactcct tggatatttg agagaatcaa gacatgaagt gtcttcttca agttactttt 180  
 atcagccaaa aaaatattat taaaataggt accggcagta ccatagagac aacaaagcag 240  
 tgtcacatag ttacagaaag agaaaacccc aaaagtagaa gatattcttt gcgtaactaa 300  
 gaacaacgga taaaagaaca ccaaattaac cctcatttct aaagatgtaa agaattgac 360  
 tccttctaata aacttcccca cacctcaaca tgcacct 397

<210> 21381  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21381

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 aatatatatg tgaagggtag aggggtgtcac atcatacctc ccccttttca ttttctctca 120  
 ttcttatttt catccttgta tccatttacc aatgggtatat gcacaacca gaccagttga 180  
 ttgttcgttg ttgcgcttat aagacaatca tatttcaaata caagtgtggg aaggccaaga 240  
 gagaatcatc catccgaggt atacttctgt ttgggctttt agccacttgg atcaaataga 300  
 taatcatgta aaaaaatcta atcaatttag ctgggttcgg acatattata aatgttggaa 360  
 aagttgatat taaccaacat ttgggttagtg cggttggtga acgttggaga acagagacag 420  
 gcaaccatta ctta 435

<210> 21382  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<400> 21382

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 agtcaccccc aacagccaac aagtcagcca ccatttgggc tcccaaaagg ctgatgccta 180  
 tgttgccaat tggggccctta ttacaacttg aactaaacct aactaaagcc ctttttagttg 240  
 attaacccaa aacatatattt tggtcagcca actttacaag gattggggcaa ttatttagac 300  
 aaactaaaca c 311

<210> 21383  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 21383

aaagctctag atgaggggttc actgtaatca tgcaagtcgg agacctagca tgatcccaga 60  
 ttcacctccg ctcccttatgt tcccatgaac ccgggtatag ggcccttttt cactcacagt 120  
 gtgtgcaaat agtgttgggtg tttgtgtgca tcaaatgaat aaatatttac cctatgcata 180  
 cattttaaaa tgcactaaaa gcaacaaaga gtttatatac ataagaacat aatgaaggga 240  
 aaccaacaaa gggataagtc atggtaaaac attgcacaag attaaatggc ctaactctct 300  
 aaaaacaatc ccagtgagg tcgccaactg tcgcaaccta cccttcggcg ggagggcgac 360  
 gcgagactcg cgggatgcgt gttccacgaa aggaatacgc gcggagtcgc caccaacggt 420  
 tatttgagga aaacgt 436

<210> 21384  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21384

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 acaagataaa cgatatacga tttgaaatgc gtgcactcat ccttactccc ccttaaattt 120  
 gtaatttatg gcctaatttt tagataaaat ttacctttag tttctctccc cctttggcaa 180  
 catcaaaaag tcaaaacgac cggagaaaac aacaaatcca gagaatatcc aaagcaagta 240  
 gcttaactcg tcaaaaaact aaagcaaaca caggctatat atccaaagaa nattataagc 300

caagcaaagt ctaaatatcc aaaccaaagc at

332

<210> 21385  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21385

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gcagaatcat aaaacggaga tggaacaaga ggaggaggat aatgcgaagg gtatgcaggt 120  
ggctccttggg gctgctgctg ctgctgctga agtagaagat gaggcggggg aggggcatga 180  
gggtgtaatt gtggaagtgg ctggtgctgc tgctgcaggg caggatgata agggaattgt 240  
tgcatagggg ggtgtgcagg accaggacct gnggggataa aaggagaacc gtgcattgac 300  
gaaggaaact gctgatgctg gggatgaaat ccaaactgct gctgttggtg catattagca 360  
gcttgtcgtt gttgctgagc atatgccata gcagatgcag ttgcataatc atgaccctgg 420  
cgctccataa cctcaacagc act 443

<210> 21386  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 21386

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gtttacttac tttttaagct gcagtttttg tactatgata tttgtactca ggcttggttt 120  
atgcacttct tatgctaaaa ctgggttttc ttttaataaat acatttcttt ttgccttttt 180  
aaaaaaacac gttgatttat ggaaatttta ttgtcgaatg aaattgttta tttaatgtac 240  
gaagacaata aatgcacaac tttgatttcg aaacaacttt tcagaaatcg tcattcatgt 300  
tgaacttgca gctcttctgg aagaacatgg agggacttga gatctgatat 350

<210> 21387  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 21387

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cgctaggggtt tgggtcccaa tgcaattgac ttagtcattt atcgtgtatg gcaaacaact 120

ttgcttgatg agtttaaata tagttacatc caacaccaag atattagatt gtgtggcacg 180

catatTTTTT tttaaaatta attccaaaaa ccattggaaa ataaagggtc atcaatttat 240

atatagctcg tgtgttaaata gttttttata cttctgcttt ggtgctgctt ttgaaaatca 300

ctactagatc tnttggactg atctgtgata aacttgggtg tcatgttaat ttatttacca 360

taatagtata atgttaggga acaagaattc gtgggatata actttggaaa aaaaaaaaaa 420

aaagcgtgt cat 433

<210> 21388

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21388

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agtttttagat tttcccttac aagtctact actaaaattg tgagacgagg ccaactaaac 120

cccgaaaagt aataaaatga taaaagtta tttttttggt tagataaaaa tgttctttga 180

aatccaagt tgttatttat ttgagtcaa aattctaaat gttgtgtgac ttaaataaaa 240

atattagcat atcttgaggg actaaatgac aataagtatt aagtttagga aataaactga 300

tacagtaagg aatttcatta tntactttta gggattaaat taacactatc tcacactttt 360

aggaaagaat ttgnattatt atttatctta natatttaaa ttaata 406

<210> 21389

<211> 446

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21389

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actggaaaca cgaataatac ctttcttata attaacaggt gtgaagctca aaggcagacc 120



[illegible]

tctcagctnt	cagattcaga	agactagtag	gagtaccatg	ttcccttact	tataacttga	60
tataatgata	tgtacaatga	aaaattacca	agtaaacttg	ttggctacta	cttcagaacc	120
tactcgtaaa	tgatacaaaa	tctattaacc	atagtttcta	gttctcagtt	ggttgcaacta	180
agtatggttg	cttcttaata	gtaaaaattgt	tttatataaa	tcccatgatc	aaggatcaag	240
tttaagggtca	aaacatgctt	ttgaagaaac	ataattaact	gcataacaat	agtaaaaaaag	300

aagcaataaa aaaggacaca acacatcaag gagttataact agttcaccca acttgggcta 360  
 caccaatccc tacaaatgta ggctntccac taaaaccaag catcttgtgg tattctttct 420  
 ttcttgaagc cttcaaaggc tcctacaact 450

<210> 21392  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<400> 21392

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 aatttcgcga gagttttcga tgtttaattt cgagcgtatc gatatattat aagcctgagt 120  
 cgtacatccg tgtgaaatgt tatgaccatt tgaatttctc gagagcttct gttgttcaat 180  
 ttcgagcctc tcgacatatt atgcgcccga atcggacatc cgtgtgaaaa gttatggcca 240  
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 gaatcggaca 310

<210> 21393  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<400> 21393

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 aaatggatcat aactgttcac acggatgagc gatacgagcg cataatatcg cgaggggctt 120  
 gacattgaac aacggaagct cttgagaaat tcaaattgtc ataccttttc acaccgatat 180  
 cctattctag caaatcacat atcgagagcg tcagaattga acaacggaag gtcttgagaa 240  
 atacaaatga tcttaacatt taactcgaat gtccaattta ggcgcatcac atatagtgac 300  
 actcgggaatt gaacaacgga agctctcgag acatctagat ggtcataact tctcacattg 360  
 atgtgcgatt cacgcttata atatattgat atgctcgaat ttaaaccatcg gaagctctcg 420  
 agatattcaa atggtcataa cttt 444

<210> 21394  
 <211> 373  
 <212> DNA

<213> Glycine max

<400> 21394

ggagaaacat tatgggatct taatcttgag ctctaataac tctaaggcta tgtttgagaa 60  
acacatgaat ataaaaatca gaaccaatga acgaaaatgc acaacattta accaaaaaaa 120  
tacattcaat tacgatgtaa tgcatoctac cactctgcat aaactataca tttcacgtct 180  
cttgatgaag atatcacatc gactagtgtt gagaccacaa taatatatat aaataagaga 240  
caatcctcat cttacaaatt gatttcataa agttgagtta gattaataac tcacataata 300  
tcttagcgat tcgttgcga gtgttacaga tctcacatct attatggtag gtgcgaatta 360  
ttgaacctca tct 373

<210> 21395

<211> 414

<212> DNA

<213> Glycine max

<400> 21395

gacctaacaa actcagcttg accccttaat cagccttgag actattgtac taataatttt 60  
agatacataa cattatttag attagtggcg ttcacgatga tgaatatgcg atagtctgca 120  
gccaaagtgt taaagctgct gctggggcat ctgatatata ttaacttgaa ttataagggc 180  
gtgatgatta acttgtgtgc gcgggcagag ctgatgtaac aaagcaacac gagcaacctt 240  
atcgttcata tgggggggag ataatacaaa acaatgaatg ggggtacgta tatctgacta 300  
gaacatatgg aatagaagtg gcattgtgtg atattataga tagttgataa tggaaccgaa 360  
aacatctttt attttattgt gaggaatagg gatggaacat actggagtat aacg 414

<210> 21396

<211> 349

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21396

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cccgtaatat aacgagacgc tcgaaattga atattgaagc tctgaactag ttcaaacgac 120  
aataactttt tactcggatg tctgattgag tcccgtataa tatcgagacg ctcgaaattg 180

aatgttgaac ctctgagtaa attcaaacga caataacttt tttctcagat gcttgattga 240  
 gtcccgtaat atatcgagac gctcgaaatt gaatgttgaa gctctgatcc aattcgaacg 300  
 acaatacctt tntactcgga tgtctgattg aagtcgccga tatatcgag 349

<210> 21397  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21397

tcaacattca atttcgagcg tctcgatnat gacgggactt tatcagacat ccgagtaaaa 60  
 agttattgtc gtttgaattg gctcagagct tcaacattca atttcgaggg tctcgatata 120  
 ttgcggggact caatcagaca tccgagtaaa aagttattgt cgtttgaatt ggctcggagc 180  
 ttcaacattc aatttcgagc gtctcgatat atgacgggac tcaatcagac atccgagtaa 240  
 aaagttattg tcttttgaat tggctcagag cttcaacatt caatttcgag ggtctcgata 300  
 tattacggga ctcaatcaga catccgagta aaaagttatt gtcgtttgaa ttggctcaga 360  
 gggtcaacat tcaatttcga gcgtctcgat atattacggg actcaatcag acatccgagt 420  
 aaaacgtta 429

<210> 21398  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21398

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 acagtaccct agagaaggca gatattcaat tactaagata gtgtcgaagg atatcgtcga 120  
 agcctaaacg accaagactg cttttggaac tccatcagat gttgacctta ataaaaaaaa 180  
 aaaagacctt gtggcggctc ccaattgact tgacaagaag gttgaatcta acaggcatgt 240  
 tgaaaggcca ccatcatatc gctatagata gtttgaacct gattaataag acgccaaatg 300  
 tctagattct tatcgtanaa aactgaagca ttctttgcct tccanagagt ccaacatgtc 360  
 accacatata atgaactact atagc 385

<210> 21399  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 21399

acccctcttg ctcgtactaa cgatggcagc gttccgatgg aagagctttg aggagaacga 60  
 ggatcaccct gaactgttct ttcactttct ttgaagttaa tgctggaaga agtctatttg 120  
 tatcatttgg aaagaagtaa gcttaagctg cctaggatat tatttttaaat gttgagaaga 180  
 ttttcttggg tattgcatga gtgcctcatc cacgaatgta aaattatttg tctggctgaa 240  
 gaccttaaca attattagtt gttcgagtga gttcatgcaa tacttacact aagacattta 300  
 ttgcgattga tggagctgga aagcgattag ctgatgaagt gagtcccgag acatgcatat 360  
 gtatgtatct caagtt 376

<210> 21400  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21400

tgtttgcttg cttgttatgc atgaaatagg tggactatth caaaaacact ctatcataca 60  
 ctagtgtcca ttttttgaat gaatgaaggt tgaaaatcga actttatcca gtaagagaca 120  
 tccaatgttt ctgtggtaat ccaaaaaaac ttatctgagg catagctcaa tagttcaa 180  
 aatgattatg ttaagattgg aagtatgata atattacaat ttacaacgaa cttttactgt 240  
 aacagttggt ccagcattcc cccgaagcct ttgtgcagca gtttcactat caatgccatc 300  
 aagcctctca cctgtagaat ccaattatth tcagaaaaga aaatcacact tgtttcactt 360  
 cagacataaa anaattatth cctactaata attgactgaa acaagctgga aa 412

<210> 21401  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21401

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tcactttctt tcttcctttc tcttgcaaaa attttgtgga ttttccattg atgatgatca 120  
tggaaggcta aacacttaat caatccaagg atccactcca agcaaggctg aatttgagtt 180  
ctggtttagt atttctaate tttgtgaatg ttcacttttt tcttcattcc tattttcaat 240  
tttcatgatt atgattatgc ttaggattca aaatggatta agttattgat tcatttccta 300  
atttcaaaat ttaatcccag attgtttgga tattttccaa cctaatatgc gatctcaaac 360  
aatttaggga tgtattcgat tgaactatct ctaatgcatt ngattgaaat ttcacactct 420  
gaacatcatt catagtaact 440

<210> 21402  
<211> 391  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 21402

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tctcccactc caagtaggcc tncggatcat tctttccttt aaatggagga atgttgagtt 120  
taataccatc aattcggttt tgtctaagaa caccatcatt cctctttctc ctcttttctt 180  
cttcattatg atctctattc tccatttgat ccaacctctc atggagcgca tcatctcgtt 240  
gtttcattaa cctctccaaa tgttgcatca aagctcgcat ttggaattgc gaaagccnca 300  
ctccatcatt atgattagta cctgacatct canacaaaca aatcaaactg aacaagacaa 360  
ttatagttgc tgtttgaata cctcaccac t 391

<210> 21403  
<211> 420  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 21403

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tctccttttg aagttgttta tggttttaac ccactaactc ctcttgatct tttgcctatg 120  
cctaattgtt ctgtttttta ggataaagaa cgtcaagcaa aggcggaacta tgtgaagaag 180

cttcatgaga gaggtaaaga tcaaattgag agggaaaaata aaagctatgc taaacaagcc 240  
aaciaaggga gaaagaagggt tgtcttcgaa cccggagatt gggtttgggt gcacatgaga 300  
aaagaaagggt ttccggaaca aaggaaatca aagcttcaac caaggggaga tggaccatnt 360  
caagtgcctg aaagaatcaa tgacaatgct taaaagttg agctgtccgg tgagtataat 420

<210> 21404  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21404

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aaaaaatgca cccatataca atcaaggcag cttcggtacc tagattattt acacgtactt 120  
ccaagggtgta tttgttactt acatcacaca cctccttggc taaattcaca tacatgcata 180  
ctcaaagcat tttgggttac caaaaattgc acatgtgcac atcttggtat ttcacaaaact 240  
tcatgatgaa tcttgactat ctacacaata aggtgctaca ttgtatgctc ttttcaagtt 300  
attgctacct aaagccgcat gcaaattcca gtatatntc ctttggtgac taaaattgta 360  
ttcagattaa aaggtatata ttttt 385

<210> 21405  
<211> 436  
<212> DNA  
<213> Glycine max

<400> 21405

tgcttgtgga gcttctatgg aggttttatc tttgttcttt attgaggtcc tttaatggtg 60  
attttccacc atggagatgc agcgaagac aaaggagaag aggtgaagagg cggcgccatc 120  
cactagggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataaaaa 180  
gcttgagag gatgcttcaa tggaggaaaa gaaagaggga gagaaagaga gaggggggag 240  
cacgaaattg aaggaagaaa aaggagaga agttgaactt tgagttgtgt ctcacaagac 300  
tctcattcat caaagttaca acaagtgtta cacatgcttc tatttataga ctaggtagct 360  
tccttgagaa gctttcttaa gagaacttcc ttgagaagct tctttgagaa aacttccttg 420

<210> 21406  
 <211> 299  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21406

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 accctcctgg tatctgagaa tcaacttaaaa ttagtgagaa aaattgtttc cgtgaagaaa 120  
 atccaagccg aggcgcttcc gtaacgcttc cgagacgttt ccatgggtga tttcaagaag 180  
 attntctacc gttcttcgtc gttcttcgtt cattatattgt cgttcccttt ggaaagaact 240  
 acgtaggttt gatttcctct tcgatggagg gtacgtaaga gcaaagccc cacttttgt 299

<210> 21407  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21407

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 agccctgggt gagacgagtc actgcttcaa gttggtcaat ggtgggctga cagatattgt 120  
 gttctggcat ggtgaggtag aggaggagga ggctggtcag accaattgtt agtgttgaca 180  
 gttgtatgtc tatattaaga attaattaga caactggatg tttatttttg caattaattt 240  
 tctagaagat tgaataattc agatcaagat catattatc caattttgat atgcttttat 300  
 tattattttg ggtcagaatc aaatctctct tatttgatct gatccctttc tatttacttt 360  
 tctttctgca tttattatgt aattggtagc cttgcctata tatgtaaatc ttttattcct 420  
 aaataatata caagaattat tctt 444

<210> 21408  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21408



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 atacatttta gcaaataaca acacatgtca atgagtttat taagaaggat ctcaatttga 120  
 ttctaacata atatatcttt aaagaaaaac aaaatttttt aagtttgatt aaattttgaa 180  
 cttagaatta attttataat cgatctaaaa gattaaaatt ataaaaatct tacaaaattt 240  
 caaaaaagaa aaataaaaaa tccttattat taatatgggt aaaaaattat atattaaata 300  
 aanattgaa ttcaccttcg ttaataaatc ttatatgaag ttcaatcaat aataaagtaa 360  
 tgacaacaaa tgtattatta gcttttaagg gattttattc gatcacat 408

<210> 21409  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21409

tcagattgtc aattacacca tgttccaaga agagtagatg ttgctacctt tgttgagtgg 60  
 tttttattagc attttgtttag ttgaaataaa ggcccaaact tgtgttgaag tggctgtcaa 120  
 ttctcttttg atttgcacca cctatgggct tgttttaatt tgaagaaatt aaggtttaatt 180  
 aaggtagaaa ctctagggtt gtggctgcct cttggctgac taggagttgc acatctttcc 240  
 acatgttttt gtgtcttaatt tctagtttta attaggtata atgacaccat caattgttgt 300  
 tattggtgat aatttgtctg aattctagtt ctaattaggt ataatgacac catcaattgt 360  
 tgttattgggt gatcatttca tcttttcata accaacttga tgccattcct ttntatgggc 420  
 tgcgcathtt ctaataaa 438

<210> 21410  
 <211> 448  
 <212> DNA  
 <213> Glycine max  
 <400> 21410

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 ctctctctag aaaccctaga catgcaaagc tctgaatccc actccaaact ccccttctaa 120  
 aatctgattt cataacttaa taggtggcct tgttcatact cgtgcgctta gcacacttat 180

ggaccgctta gcgcacatta gtgaatTTTtg gcttagcgcg tgcctttctc gcttagcgga 240  
tgaactgaag tggTgcgctt agtgagatga agtggtgtgc ttagcaaacc tgtacaactc 300  
atTTTcttcc agagtcttcc tcgcgcttag cccatgagtg ttgcgcttag cgaacgctcg 360  
ctaagccagc agattggctt agcgagaagg tgaaaaacaa cactttccaa agcttgcccta 420  
atgaacctga aattgagaca aaatgatt 448

<210> 21411  
<211> 341  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21411

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agggtgtagt aagcaaatgc tcacctcccc ctctaaaatt taattggatt gggcttctac 120  
caattcaatt aaatttattt cccaacacac atatcaaata ttcacttagt gcatgtgaaa 180  
ttacaaaact acccttaata caaaaactag tctaggtgcc ctaaaataca agagctgaaa 240  
aatcctatat ttctagggtg ccctacctac attatggagc cctanataca aggaccaaatt 300  
ataatgacat cctagtctaa tatgtataaa gataattgga c 341

<210> 21412  
<211> 451  
<212> DNA  
<213> Glycine max  
<400> 21412

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attagtataa taaaagcttc tatattttTgc atctaagatc acacaagatt cctgtcggta 120  
gtctgaatga gaactttata gaacaccctt tttgaatttt aagtatgaat ttttTgtgaat 180  
tcgagtaagc aagtaatgat attactgtgt aaaaaaagat aatgatatat attcctctgg 240  
acttaaatat atataaaaaa actaactcaa tttaatgttg ataatotcat gaaaaaagtt 300  
aattcatttt ttaaagtacc atttatatta attgcatagg acaaaaaaaa taaggttatt 360  
gaaaataaaa ctctaattaa ataaagagta ttttggggat attataatta aataggagag 420  
aattaattaa aatttactta tattttaatt c 451

<210> 21413  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21413

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 ttaactctaa ttgtcgaatt tattatttag ttttatcaat tgggccact tgactaattt 180  
 ggtgttttta attcaatttc aggataatta taagcaattg ggctgagcca aattggactt 240  
 gaagagagaa gacaatttta ttagatttcg tctaatttca ttntattgca ttcagttntt 300  
 atttagtatt tttatttcat tntagaccan aataatgtaa tcaggcccag tgactntgag 360  
 tgatccttat aaatagcagc cttgggattc g 391

<210> 21414  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<400> 21414

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 ctctcatcaa cgtgagtggg cattttattc tttttctata attacggggg taataagatg 120  
 aaacaatagg gtgatgaaac gaataggggt tcctctcact gcttgaagca tccaattttt 180  
 atttttatth ttatggtaga acatattatc atatcttgga agcatcagct gtgactcggc 240  
 taaaggctac cgcgggtcttt gagccagatg ggcgccccaa atgcttgccg atgaactcac 300  
 cggctaacat gagctttccg agatcaacgt tggttttcac cccaagtcca ttcagcatgt 360  
 acacaacatc ttcggtagct acatttcctg aagctccctt ggcataagga cagccaccta 420  
 gaccagcaac tgaagaatca actgcactga tccccatc 458

<210> 21415  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 21415

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agctntttct ttgactttta ctgggttata tacgccatgt tctaattttt cactatagaa 60
tagattggta gtatatataa tatatgaatg gctatttgat gactgattca gtcacttaaa 120
tgaattttgc aaattgacat ttgcacagaa gttttgaatg ttgatgaaat aaatttggtg 180
tacttaactt aaccccatga tttgatgtcc cgaataaaca atattgtctt gtcaatatga 240
tacgtagtgt ttaaggtaat ctccacggta ttgaagtgtt tttaaatgaa agacaagcca 300
atatctttta gtattttttt tctcaacaaa ggtgtatttt caat 344
```

<210> 21416  
<211> 268  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21416

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acagaagtgt tctcaaagaa gcttctccag gaagggtgtct caagaaagct tctcaaggaa 120
gctacctagt ctatacaata gaagcatgtg taacacttgt agtaacttgg atgaatgaga 180
gtcttgtgcg acataacttga aagctccact tctgtcccta ttttattcct tcaattacgt 240
gctccccctt ctctctttct ctctatct 268
```

<210> 21417  
<211> 366  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21417

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ataaaccocaa attataaagt gtactaaaag caggaaatga taataaaagt gttcaaaaga 120
caggaaaata ggataaaagt cctgtcatgg gtccctgtcgt gcaaaaggga cataatccat 180
agctgctgca tcatectect ccttagagag ctccagtacc agtggtgtca ctggggatgc 240
ctgcggagta gagagctcca gcacaggtgt ggtcactggt gatgcctgtg gagtcgtctc 300
tagagtggcc tccgcagtgt cctcctgagt agctgggtca gtctctgggt caacctctgg 360
```

catgtc

366

<210> 21418  
<211> 440  
<212> DNA  
<213> Glycine max

<400> 21418

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tctgctttgc ttaatgacta tcaccttgag gacaaggatg tttcccaagg gccgcgggat 120  
gatatggaaa acacatatca cagagtaggg gtacaaagag aacattctgc agagggtgcag 180  
aatatggaaa agcccataag gagagtaatg aggccagctt accttcaaga ttatgcgtaa 240  
gggtagaaaa gggattagtg ggatagtgcc gttagagcac gggacaagct taacgggtatt 300  
gattctgtga tattcctctt gcacaaaaaa gataagaatt ctgctagcat aggatagtat 360  
gaataacgtt gtatataaaa tcagaatcat aaatgagaat atattttctt gccttattcc 420  
ttctcccctt acttctatgg 440

<210> 21419  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21419

cccgggatcc tctgaggcga tctgctgctg nctgcttttc tgagcactga tagggaagct 60  
tgaggcatgc tgggtacaat cttttctcca cttaagatag actaaatcct taaagcaagt 120  
tctgtggtaa tcagctctct tccatgctgc ccaaaactct ggaagacaag gaatcatctg 180  
tcaaaaaaac cagaataacc aatttgagat aactatccac tacatgccac attataactt 240  
tctcttataa gaatgcctat acataattat attatcataa agttccccct tttcttacat 300  
acacattttc ccctgtgctt atcatthaaca canatgaatg aggaaaactt acaataagaa 360  
ttctaggctc tgacctctca tcattgcctt tctttccttt gaat 404

<210> 21420  
<211> 358  
<212> DNA

<213> Glycine max

<400> 21420

cccttctaca caaggctcta taccggtagc ttagtagctt gctcgtgagt tgtgctgcgc 60  
tatatttttt gcttaaaaaa aactacttca ttgggggggc gaagtggaac ttctgactct 120  
ctttatttga agactataca taaaaagcgg attttgctg ttataaaatc acacgcacat 180  
gtctttttat ggaatatgat gatggggtgg gtgatctttg cttgcaagat tggaaggatc 240  
ctaacgcgac cgacactaaa catggtatgt gttgtctgac aatatgaaat gaagagtatt 300  
atgatatcgt ttaccgaatg ttggtgccaa tgcaatggct tactggggga atatagat 358

<210> 21421

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21421

agctttttgc ttcttgtcat aacaactttg cactattctt tgggattctt ctcagtattt 60  
gctccaaagc tactggatga cttctcaact atatgcttag ccagttgacc cacctggatc 120  
tcaagatttt tcagggctga ctcagtgtc ttatgattgg atatagtcac ttgaatgaat 180  
tgagccaggg tctcctccag cttggtagtc ctctgaaaaa gagtaggccc ttgttgaggt 240  
ggcctattgg aaagttcacc ctggtcctta ttgaattgat tgccaagggtg tgatcttcat 300  
tgaccttgct gattgtangg accttgctgg aaacctgaga atcctcttgg ntgacccttg 360  
ccttgctgat tcccatgtan taacttcat 389

<210> 21422

<211> 442

<212> DNA

<213> Glycine max /

<223> unsure at all n locations

<400> 21422

ntggaagaaa gtgatgaggt acaagcccta taggcaaate ttgtaagagc ccgggtagtc 60  
aaagagaagt tcaagtccat agccatcaaa gtctgaagag agtatgatga actaagggac 120  
gttaatatgg ccaccgatga agccttgga tgagaaacca agaaggcccc aaaggaagaa 180

cacgacccaaa gcaaagtttt gaggggcttt atagggcagc aatagtgagc tcaagctccg 240  
aagaggtgaa aggaatcatc atgggtcaaa ggcattgatct tgaaggatga gctaaagggt 300  
ttccttatgt cgaanagaaa tttgtcccaa cagttaagcg agactgaagg gaatatgtgg 360  
gccatcatcg ataagtgcac agagaagcta aatctagcgg cgactcacga gcaaaggcta 420  
gaggatgagt acgccaagat at 442

<210> 21423  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21423

cgttttgtct gcttatttca aaaggaaaaa gtattgacat ccaatttcct caaccaattt 60  
ataagatttg cggaatacat gcaaaatatt tcaagtctga tgctcaaatg cgtattcgct 120  
ttacaagtta atggttggat tgaaattagt aaagattatc tagatgaaat gtgacaacat 180  
atgaagggtta gtatataatt aggtcaatta tattcaattt atttatatat ttgaatatta 240  
gttatatctt caaattagtt tgataatgta ttttggtagt atataagttt tgcttttttt 300  
gatgaaaaca tgtaatatataa ggatgctntt agtttacttg atgagacgac agaatatgca 360  
atgaagcata ttcaatctca atacaagaat 390

<210> 21424  
<211> 445  
<212> DNA  
<213> Glycine max

<400> 21424

tactcaagct ggactttggt aggcaaaatg tctcgatatgt catgactatt atttggttga 60  
tcaagacgtg actatcatga gactttaagc ttaccaactt aagatccttc aactgcacaa 120  
ggctcttaat atttgaagag tacccttggt gaactttgac atgacacata cactaacaaa 180  
aactcatctt ctcttttctg ggcaaagtat gacaagctga aggcaagtat attttttacc 240  
atcagacctt ggatataact gactcgtat atccatgcc aactagatctt gacgagtatt 300  
caaaccatct ttcattctgc cttgaatggt aaggagcgtc ccaataacat tatcacatac 360  
atttttctct acatgcataa catcaatata atgtctaaca tctagatcag accagtaggg 420

aagatcaaac aaaattgacc ttttc

445

<210> 21425  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 21425

tttcttgta aaacctaagt aagcctgctg attcctttat ggtctccgta atttactgtt 60  
gttgctacct tcttcactt gtattatatg catttggcaa aagatcacct ttacttcctt 120  
tacccaacag attaatacaga aagtgattgt ggatcagaaa atcaaatcac ttgtattgtg 180  
tactgatata aatagcttcc tcatcaaaat ccggtgccct tcaactttggc caaaagggtt 240  
catctgttca acatctatgc taggcagaat tcccttttca gaacaagcat taatagaatg 300  
gcctcctaga agattaatat cggtctctat gggatatggg ctgcctaaac ttataactat 360  
ggttaacctc aatactttgt tgttgaaaaa gcttctt 397

<210> 21426  
<211> 403  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21426

nttaacactt tntgaatgan aacttatatg atgttaatat tccaattatt cacataaaaa 60  
gaaggaaaat aagagagaaa aattaacaaa tctacataa gtcaatccca aaatatacct 120  
atacataaca gttattattg acaggctgca gcaactctag actcttgtaa acttatttta 180  
aatgaatcca tatttttaat agctctagga tgtattggaa tctaattctaa tgtaccttaa 240  
tccaatatgc gctttctata aaacttatgg atagacataa aaagtgttac acaaaattcc 300  
agtttgaatt taatggagta ttttcttttg caagtgaag ttatttggtt tgtttgtctc 360  
tgtttttctt ttntgttggtg ttttggaagc tatattcatg aat 403

<210> 21427  
<211> 291  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
<400> 21427

tttttattgn aatcgtgaaa ttcaggacag tactctaatt tctgaaattt ttcggataaa 60  
aatggtcatt gaccagtccc ttttccatga cttaaccaaa ttaccagtg acggtgtacc 120  
atttgaaggt tcaactgaatg actactggaa atttgatttc tctgcccagtg atgcccggcca 180  
gttggtttgc accaacaatg cggatatgac cggacgtctt cttgccgggt cattggcttt 240  
tgaaagccgc atccttcact atttaattga gcgtactttg cttgcactgt c 291

<210> 21428  
<211> 436  
<212> DNA  
<213> Glycine max

<400> 21428

tcttcggggc catttctgc gagatctaac atttagaagt tagttttaca agacaatgct 60  
tatcttaacg caaaaagtg catgctaate cctctgattt tagaatgaac tcatgtaate 120  
tatttatgca cacgcgtatt tgtggaatat cctactattt atatcaacgt agaggccatc 180  
caacacatcc taattctcat acatatatat gcatttgaaa agaacataca ttctcacgcc 240  
taaggcatcg cgtcaaaaact cacacttaat tatatcctaa acatttgcta atacaaacta 300  
cctacacaca ttgaaatat gtatcataca aattttattg tttctgcata ttggaaagct 360  
aattacatcc tgcacacact tgcattcaaa agggaattcc atgctatcat acatccattt 420  
aggaaaataa tcattc 436

<210> 21429  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 21429

agctttttca ttatctatgt ttggacatag acggcataat agaaggatat tctctaaaag 60  
tttcactttt caaaaatcaa ctttaaagtt caaataacga gataattttt catgattgag 120  
tctattttac atagtaattc tccatcaaac aaaaaccttt tttcatccac aaagtattca 180  
aatgatagtc gcccaaaatc ttatccattg tcatcaatat gctctaaata attacatctc 240  
ctattaaatc cttgcacggt cattagacc ttagagctta tctattgttc tcaatatgtt 300

ataaatactt tcattatcgt tagctcacat caagacgaca tgccacctaa cctctacact 360  
 accaagaaga ctcttaatct tcatatatgg atatatcatc 400

<210> 21430  
 <211> 449  
 <212> DNA  
 <213> Glycine max  
 <400> 21430

tgtagaccta acattatcta tgatttataa gcaaaacatt tctcaacaaa tgataataat 60  
 aacttgcaact atattatctt tttaattata gctcaaattc aaatgggtgt gattttgtat 120  
 ttgaagatac tcttcacaaa atatattaaa ttgcatatat aaataatggt gttgacaaga 180  
 actagtaata catcccatga ccccccctt tatctactta ttccatattg acacatatgc 240  
 ataattaata ttaagttata aacttataaa aaacaaattt ttatgttggt aaaaaaatgt 300  
 caatattaac aattatctat cactaaaaaa taattaaatt cgactaagaa aatttaaata 360  
 tttaaataaa atcaataaaa gacttataat ataaaatatt ataaaaagta taacatattt 420  
 aattatatat tataataatt tattatctt 449

<210> 21431  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21431

agcttatctt tgtaagttgt agaagtgaca gtgaagaata cttgtaactt ttgataagtt 60  
 agtgaaatct tggtaggctg ctaagaactg aacgtagtct cgggtgtagaa agtataactt 120  
 catgtgtggt attctttatt gtttttcttt gtgtgttgat tgacgaagga tttgaatttg 180  
 ctttttatat cttatatttg tttttgatct gttaagaaaa ttgttttctc attgtctgat 240  
 aaagtctttc ttaaataat cttttctttt atttttagtta aatntgcatg agacgataaa 300  
 agtgttttta gtctaagaaa aattttaaaa tttctaaaat tacaattaaa cccctnttgt 360  
 tgtgtattag cttctcaact attagctaatt tgggtata 398

<210> 21432

<211> 440  
 <212> DNA  
 <213> Glycine max  
 <400> 21432

tgtgttctcc cttgtagaac tactaactgc agtaattggt gtagtttaac tatccggtag 60  
 tgatgacaat agaatcaatg ccttcacctc atcatcaa ataatctgca ctgattccaa 120  
 ctgggcaaga atagtattaa attcattaat atgatcagtt acagagatac cttctcccat 180  
 cttgagggtg aacaactggc gcatcaagta tactttgttg gctgtcgacg gcttctcgta 240  
 catatctgat aacgccttca ttaagcctgt agtagtcttc tcgtttacga tgttgaacgc 300  
 gacgttctta gctaattgca atctgatcac gctaagagct tgtcgatcca gcaagttcca 360  
 ttcttcttgc ttcattgctg ctggcttaac ccttgataag ggctgatacg acttcttttg 420  
 atatagataa tctctatct 440

<210> 21433  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21433

agcttctttt ggaccttgaa caagccatca attcctcttt cagaaccatg ctatgtgctc 60  
 gcgactggtc cctttcttcc cttcgcaact tgagttcact attgctaccc catagagctc 120  
 cgcgaaattt gttccggcca tactcttctt tgcgagccct cttgggtctct cgttcaaggg 180  
 ctcttgccgt aattgcattc tcttcccgta acccggcaca ctcttccga acgtgtgtag 240  
 cagccaactt gaacttctcc ttggcgagtt ttgcctttcc taactcgctt ttgagagctt 300  
 ggacttcttc gtcctcttcc ggtgcttcaa aattctcttc gctgacgact nttaacttgg 360  
 cgagccaatc taaacctcgt atcggaactt tc 392

<210> 21434  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21434

tgagaatgga ggatttcctt gaggggtctc tcttangcat ttatggaaca cagttccaaa 60  
 ctcaaaaatg gaggacacat gaatgacaac gcaattcatt catggggctc cgaaaaaggg 120  
 taagaatgga ggatttgctt gaggggtctc tcttaggcaa tcatggaaca caactccata 180  
 ctcgaaagtg gaggaccac gaacaggcct aagcaataac attcatgtgg ctccgaaaaa 240  
 ggatgagaat ggaggattgc gttgagggtc ctatcttatg caatcatgga acacagctcc 300  
 aaacttgaaa atggagggtca catgaatgac aacgcaattc attcacggng cttccgaaaa 360  
 gggtgagaat ggaggattgc cttgagggtc ctctcttang caatcatgga acacagctcc 420  
 aaactcgaaa gtggaggaca catgaac 447

<210> 21435  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21435

agcttgttct tggtttatac atgattgata catgatttgg gacttgtatg atttgatttg 60  
 ggcaagattg gatgagggga agtgtgggtt tcgaaatctg cattttgtgc agatttttgc 120  
 tgtgaaattg tgcagcagga ttttgacaaa gtgcagaaaa atactatgca tttgctgggt 180  
 gtggaaagag cagtgcagaa tgagttctgg atgtttgcta gtagatccca acggtcaaaa 240  
 tgtaggctta tgtactagag acttccagta aaaatttggga gtcgatccaa cggttaacga 300  
 attggaacga aggaattgtt actggnggtc ttaagtgaga aaagctgtga tcttggtggt 360  
 gtttggcaga gttttctgct ttgtctgttt cttggctgga tag 403

<210> 21436  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21436

tgcacttctt aactntctc aagaatttca gcctctttcc tacttagact ttttagcttt 60  
 gggagccaag ttatcccttc tgttctagac ttcaaccact tgtgatagtc gtcgatgacg 120  
 ccattgttac ttcccctaag ctcttattt tttgatgcaa tctaaccg caagggcatt 180

ggatagaaga ctccaagtag attgggccag agatccaagg gaaggcccta gggttctcat 240  
gagccttagg gtagatttcg agcccatggg ctaagcatga gcccgtttat ctttgtaaat 300  
attagaatag gtttttcatt cgtttgggcc ttgtattttg gccattctag tagtataagg 360  
ttttagcctt gtatttcgag gcattntgat tagtctttat agtagggaat tttttgtatt 420  
ttcatgtatt ttgtcatg 438

<210> 21437  
<211> 379  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 21437

agctttatgg ctgagaacct atataacaac accaagggtc tagttttagg attctttttc 60  
gttttangga gaaagaataa ttttaggttt tgcaattcca gtttttacta ttcacgtaac 120  
aatcgttttc tgcttcaatc tgcaatttcg ttttctactg attaatggaa ggccaagtct 180  
ccaacgttgt tttctcttga ggatcaagca caactctctt tgaggttntg ttattactat 240  
tgaattctga tcagttnttc ctcttcacca attactctat atttgttgta ttaatccatg 300  
catgcttagt gcttgattaa ttgtctctgc gcttaattta cgttcatgct taatgatcna 360  
gtttcgtcat gattaattg 379

<210> 21438  
<211> 430  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 21438

tgtctcagcg tttatgcgag acagagacca acatgttagc tatcatcgcc aagttcgaag 60  
aagagttagg tctagccacg gccacgagc atagaatcgc ggatgagtat gctcaagtat 120  
atgcggaaaa agaggctaga ggaaggggtga tcgactcttt acaccaagag gcaaccatgt 180  
ggatggatcg gtttgctctt acctgaacg ggagtcaaga acttccccga ttgtagcca 240  
aggccaaggc gatggcagac acctactccg cccccgaaga gattcatggg cttctcggct 300  
attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360

tggtctctca gaccttgact agatacgact ntcctttttg aaatanaatg agttgggtccc 420  
atgtttctac 430

<210> 21439  
<211> 384  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21439

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gttattagga gatgcatttt ggacaatgag attgactcgg tcctgaattt ttgtcattct 120  
tccgcaccag gcgaccatct tggatatacag aggatagctc gcaggggtgct tgactgtggt 180  
ttctattggc ccaccatttt caaggatgca tggagaattt gtagtacttg tgagtcttgt 240  
cagagagcag gtggttcact ttcttggaaa cagcaaatgc ctcaacatcc tatgttggtc 300  
tgtgaggtgt ttgatgtata cggtatcaat tntatgggac ctttccatgt atctnttggg 360  
tntgtntata ttctccttgc tgct 384

<210> 21440  
<211> 433  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21440

tgtttttaaag acccaattnt atcaacatct atgtcttctt gttgttttga ttctaatacct 60  
tgtgttgatg aattagccat caaacacaac ttatcttctt cgtcctttgt tgaggcttca 120  
tcttcagatt gatccttaga taactcatca actttcagag ctcttggtgc aatcatttgt 180  
ggtccacact cagtggaacc ttcatacaat atagaaagaa tgtccaacat ttctttggca 240  
tttttgatat agcgcacctt tgcattgctt tttctgataa tgcacagatg atggcgtttc 300  
ttgcttttga gttcaacaag tatctctgtt tttgcttata aatccatctc tgtcttggaa 360  
gctcattgag gttgttatca taaggattct agtttccatt ttctattaca tccatcgat 420  
cactatggca gta 433

<210> 21441

<211> 365  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21441

ggctttcaaa ggctactctt taccctacaa atattgntaa tctgctaattg gattcaatct 60  
 cccctcacga taccactatc acaggtgcta ttggattttg tctatataga tatctatggt 120  
 tgtgggtatgg ccttgaactg ttattaaatg ttattaagtt atttgaagca tgcatttact 180  
 gtatcttttt gtgattaaac taccctggat ttttcttgt cataggagga catttcttga 240  
 gtttattaac tttttaaaat tagttaatca gatgatgatc attggagaaa gttgatgggt 300  
 cttgctttct tgaacattgt tacatgggtgc atgggaaaag acatggactt atattttcaa 360  
 ctatt 365

<210> 21442  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <400> 21442

tgagtcttag tataattggt gcataaact tatgaattat ttattatgaa attgggtgaag 60  
 tgttgtcact gtcacgtctt gactcgagtg tgtgattcat gtgtaattgt atcggcgatt 120  
 gaaaaataaa ttttaaataa taaagtggag aagtgcacat gattgcatta agttgaacta 180  
 tgtgatacat attgtcataa ttgatttctc ttatggcttt ggatatctgc attttattta 240  
 caaatgtgac aactcactcc tgatgtgtgt ttgtgtttgg gctaaatgcc attttgtttc 300  
 aggtgagcta tcctatgatg atgatcatgc tacaaatgga aacgcttagt cttactcatg 360  
 gaaattctct gatagatgtg acattgatgc atggggctga tacttcacat gttataatta 420  
 catg 424

<210> 21443  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <400> 21443

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ctactttaat cgattacttc tctcttaaaa tgcgcttcaa aagtgatcac aacttttaat 120  
 aaaaatagaa taaggcgctg taatgggtgc aagctatgta attgattaca tgaagaatct 180  
 aatcgattac attgttcttg aaatTTTTcc aggtgggtggg aagaacacta taattgattg 240  
 aatgataat ataatcgatt acttcttaca cataatcgat tacattgtat atttaattga 300  
 ttacatgcag gtataactgg tttctctata aatagacacc ttgtgttctg ccatttaata 360  
 acatctaaca acttgtgaat gtg 383

<210> 21444  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21444

tgcttatgga gcttctatgg aggatggatt tttagctttt tgtggtcctt caatggtgat 60  
 ttttcaccat ggagatgcag cggaaggcaa aggagaatag gagaggggag gcaccatcca 120  
 ctatggaata agccaaggaa gaaggagctt caccaccaag aattgccatg gataagaagc 180  
 ttgaagagga tgctttaatg gaggaagaaga aagagagaag gggggagcac gaaattgaag 240  
 gaataaaaga gggagagaag tggaactttg aagtgtgtct cataagactc tcattcatca 300  
 aagttacaac aagtgttaca catgcttcta tttagagact aggtagcttc cttgagaagc 360  
 cttcttaaga aaacttcctt gagaagcttt cttaagaaaa cttccttgag aagtttctnt 420  
 gagaaaactt ccttga 436

<210> 21445  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 21445

agcttgtatg gtttttgtct cacgattgtc acatgctcat gcaataattg ttagtcgtgg 60  
 ctatacgaga catcttgcca aacaaagtca ggtagccat aactcgcccg tgcttttctt 120  
 tccatgctat atgtagcaaa gtcattgatc ctgtcaagtt tgatgagctg gaaaatgagg 180  
 ccgcaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacattatga 240



ttcactctat tgtgcatctg gtcagagaaa tcaaagtgtg tggctcctgtt catacacata 300  
 attcaaattc attaatatgt aatgcatata ttggatgaaa gctttgaaca tggaacttat 360  
 ggcagttcat tctatattgt tgcaagtact cctacttct 399

<210> 21446  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <400> 21446

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 ccaatatgga catattaaaa aaaattatca taatgggtat ttttttttaa aaattacaaa 120  
 aatgaataaa tcatattttg atataccata tcacaatgaa aaaattgtat atcaaaatac 180  
 gattttactt ttgatttggt taaaatcatt tttattaaac aaaagtgaat atgtatgtca 240  
 aaatacgatt tcaatttttt tttcctaagt aaatcgtgta attttttttt ctgacaaaaat 300  
 tgtgttcaaa tacatgattc ttaaaataat taaaaaata ttgaaattat atgtgcatat 360  
 atgattttta tgttccaatt ctttggaag aaaatcattc tttgaagtac gatctcttca 420  
 taat 424

<210> 21447  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <400> 21447

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 ctttcatagc tggacgacag ctgctacaca gtgtaatcat cgctaatgaa acagtggacg 120  
 aagccataag gggcctaaaag acatgcttgg tgttcaaagt agattttgaa agggcttacg 180  
 actctgtttt gtggaacttt ttactataca tgctgcgaag gttaggggtc tacaataaat 240  
 ggattcagtg gattgacggt tgccctcaaat ctgctcgggt ctggtgtgtg gtaaattgaa 300  
 gccccacctc agaattcatc cctcatagag gccttagaca aggtgaccca ctagegcccc 360  
 tattattcaa cattgtagat gaagccttaa tgtgtctca 399

<210> 21448

<211> 397  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21448

taactaactt aaccaactta naactaccta actgttacat gttataacag aataatagaa 60  
 aacagaaaaa taactaagtt ggtaaagtct aagagaacct aactaatggg tgtaaatgaa 120  
 ccaacatata acactatggg ttgctaacac tacaatttgt tgatttcaac cggtaaagtt 180  
 tgaaaaaaca tagagtattt tttgaatttc aaaattttca attgcattgc atgattttga 240  
 tcattgcata tttgagtttt gaggggtcgt gtgtttttct ttggaggatt ttgttctgtg 300  
 tctgtggtaa atttttctaa ttgttgttgt tcaaggagtt caaaaacttt tcgagatggg 360  
 gagtgctctg aagttcgggt gttaaaattt tgctatg 397

<210> 21449  
 <211> 385  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21449

tttcttttgg tatcatggta gccatcagag aagacattct atttccactc ttatctgtct 60  
 gcataattaa tcctttcgca gaatgatata ccctacactt cccatgttga atcaaaatag 120  
 tcaagccttt ttcttgaagt tgtcctatgc tcaccagaaa ttgcctgagt aaatccactc 180  
 acttgcataa gaatgatacc tttttccaca acatccattc tgggtgttatt gccaagtttt 240  
 acagtttggc taaagctttc atccagttct gagaaccact ccttgtttcc aatcatatga 300  
 ttgctgcaac cggagtcaag gaaccacact tcttccattn tgtcttgctc cagggtcaaca 360  
 taagacatta ataaaaaatc tttca 385

<210> 21450  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 21450

ttctaggata acttatgaaa acggtttatg gcttatactt taacagctta accctatttt 60

ttccttccat tatatgagag gttgacatac ataaataagg tctgattcgg aggggccata 120  
attgaactgt ttatgcgaac ggtgcaatat ttcataactc aggacataac tacatcaaca 180  
accagttca gatttttcac ccatgggtgct acaaaaataa taaacaccac tttcaattta 240  
cattaatgaa tgaataatca aataactaac tcctgaccac atcaaattaa acccaattgc 300  
ttgtttatat caattttttt ttctgtttcc atcgggtgta gtgacaaaca aataaaatca 360  
aaaaatgaaa ctgataatac aaattgaaaa cta 393

<210> 21451  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21451

ttgtatacta agtgctcacc aacactagat aagaatccct caggttggtt catgtaaacc 60  
tcttcttcta gatcaccatt caggaacgcc gttttcacat ccatttgatg cagctcaaga 120  
tcaaaatgag ctactaatgc cagaattact cgaagagagt ctttcttaga tacaggggaa 180  
aaggtctctc tgtaatcgat tccttctctt tgagtgaatc ctttagcaac aagtcttgcc 240  
ttatgtctct caatgttgcc ttctgagtct ttctttgttt tgaagacca tctacatccg 300  
atggctttta caccaacatg caactcaacg agatcccana cctgggttaga tgccatagaa 360  
tccatctcat ctctcatagc attataccac aaatt 395

<210> 21452  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21452

tctggtggga catcttgact tgcttttcaa tctgacattt tccacagatt ctgccttctt 60  
ctattttcag attgggaatg cctctaacaa cacctttgtc aatgattttc ttcatgcctc 120  
ttaagtgcag atgtccaaat ctttgatgcc atattctgac ttcattcttct ttggaggata 180  
gacatgtgga ggagtagctg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240  
tgctgcctt cattagaact tcactcttct catttgcac caagcattct gactttgtga 300

agtttacatt gaatccttca tcacacaact gactgatgct gatcaggttt gcagtcagtc 360  
 ccttcaccag cagtactttg ttcagactag gaagtcctac atgaactagc tntcccatte 420  
 caatgatctt 430

<210> 21453  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 21453

agctttatct caaatctctg gctaacttat cttttattcc actaacgaca gagaaaggat 60  
 ttaaagtctt aattaatgta gttttaaaag gatgttgatc tctccattgc gtaggcaaga 120  
 gcaagacaac gcttaccaaa caaaaaccgc tcttaatttt taaaacatat aataaaatgt 180  
 tcccttatta taataatcaa attgacttca attagcataa aaataatagc ctttagtggg 240  
 acaatccata gtaacctagg aaactcagta caaatacaca ttaaaaatac aaaagcccaa 300  
 ggatataata tgcttcaa atttgttttc cacactcaaa ttgccatatt acgggtgaat 360  
 aagtgaattc aaaccaagat ctaaacaaaa agctatc 397

<210> 21454  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<400> 21454

tgagactttg agaaacatga agaaacaaaa caaaccatt gatgtggagg gggaaaaaaa 60  
 ggggatcttg aggagggaat tgtgatgaga gggtgacaaa aaagaaaagg gtatgttgag 120  
 agtgatggag aagtgaacaa aaaatgagaa tgatttgaag aaaaccacac aaactgaaac 180  
 cctagagggg gagggaaagc ttgcttacc caccaaaagg tggagacatt tttggccttt 240  
 gatcaaaagg gtgtggcttg gcattgagaa cgtgtggagt ggggctggcg aaaaggaaa 300  
 gaagaattat acttttcgtt tcgtttggga gcacagcatc gaaggaaaat ggtggaagca 360  
 agcaagagtc caaagggaat gggtttgtgg tttgttctcc cgagagaatg acagtgcac 420  
 acgcacacgc agaaacagtc acaggg 446

<210> 21455

<211> 394  
 <212> DNA  
 <213> Glycine max

<400> 21455

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agcttcttat tgtaatcttg aaattcagga cagcactcta atttctgaaa tttttgggat 60
aaaaatggtc attgaccagt cccttttcca tgacttaacc aaattaccca gtgacgggtgt 120
accatttgaa ggttcactga atgacgactg gaaatttgat ttctctgccc atgatgcccg 180
ccagttgggt tgcaccaaca atgaggatat gaccggacgt cttcttgccg ggtcattggc 240
tattgaaagc cgcaccttc actatttaat tgtgcgat ttgcttccac ggtcttccaa 300
ccttgccctg gtttctgagg aagatcta atcatgtgg gcctttcata cagggcgctca 360
acttgactgg gcacacttag tcacatatcg catg 394
```

<210> 21456  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21456

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tcctcggggc catttcctgc gagaacaaac atttagaagt tatttttaca agacaatgct 60
tatcttaacg caaaaagtgt catgctaate cctctgattt tagaatgaac tcatgtaatc 120
tatttatgca cacgcgtatt tgtggaatat cctactat ttatcaacgt agaggccatc 180
caacacatcc taattctcat acatatatat gcatttgaaa agaacataca ttctcacgcc 240
taaggcatcg cgtcaaaact cacacttaat tatatcctaa acatttgcta atacaaacta 300
cctacacaca ttgaaatat gtatcataca aattttattg tttctgcata ttggaaagct 360
aattacatcc tgcacacact tgcattcaaa aggggaattcc atgctatcat acatccattt 420
angaaaataa tcattcacac ttggcaagg 449
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<210> 21457  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21457

agcttttcag ttgcttatcc aaaacttcaa gggttgatga gttaacaagg cattgtggaa 60  
 tggttcctgt caacatgttg tgagataagt tgagaatctc aattgcactt gcattgcaaa 120  
 ttgaggaaga gaagccacca gtgattgagt taaaactaag atcaaggtaa gcgagtgggt 180  
 tcttcacga gaattgggtcc aatgattgcg tcaatagggt atgagagagg tccaattcca 240  
 ataacaatga gttcgtttca tgcaaccaat ttggcactct acctttaagt ttgttattgg 300  
 acaaatggag tgattcanaa atgggactnt tcccgataa tttggaaatt cagttaaattc 360  
 catagatgaa tagtccaatc tccatanacg ggagaaatta tacttgacat tgg 413

<210> 21458  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21458

ntatggtttc gcaaataatt gaggctttct gcttataaat ttagaagatc tcataatctg 60  
 tgaacatgag ttgctttgggt tgcactttac atgagcaatc tacacctttt ctactatat 120  
 tggggatatgt aatttatcta aggaaacaat taactaacca aaacagaata aagcaatcct 180  
 tgaagtctca taatttgaaa ggaaatcttg cagaactgga gatgtgacgt catttttctg 240  
 aacaaaagc atctgacagt tggaaaaaga aaacagatta ataactgttt acaaagttgt 300  
 ttgagaccag tgataccac ttaaacaaaa ttaacaatct taacaacagc aaattcagca 360  
 gacaaattat aatcaagtgg cagaaaacaa ttatttatta ttaatgtaat gtcacgtact 420  
 gctttttgtc attaaaaaaa a 441

<210> 21459  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21459

agcttttggga agtgcttttt ataattctag ntcttgcttg taggaagaac tattgggcat 60  
 atactgcagt ttgtatatca gttgtcacat gcctatgaat atgaggaaaa tgtctctcgg 120  
 aaacatgaga taactgtatt atactttatt taatcgatta ccttggctgc ctctactatc 180

tcaagaggca agtttttggg aaactcttgc cttcgttgac agcaactttc atttgctctg 240  
 cttttccgtg aaattagacc gaaattatgt tgtataaata gtcagtaact gagatatagt 300  
 ttctgatttg gtgtcatatc catcaagctt tatagtttaa caatcacccg tgcattgggtg 360  
 gatctttatc ttgatcttaa taat 384

<210> 21460  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 21460

atgtaaccct ggaatgaacc aagacaatgt tgacaatatt tgagacagtt gattatgaaa 60  
 cgacgaaatt tcctttgaac cggttaagctg gggcggtccat acattgccac tggaatgcat 120  
 acaactgaac aacttctcta ttttaaccatc tgaacaaata ccaacttttag aaggataact 180  
 gacaaattat tacatcctaa aaaggaagggc tgtctatgat aggattctta aagcagcatt 240  
 gtggcttata caaaattaga gtctacatta agaattgaag cacaaattat aatggaatat 300  
 ctaactaaat tgatcttcag aataaaacat caactctgta aaaatgaata gttggcattt 360  
 gcatacagca ctatacagtc ctgtaaagct gttattgatt gaataaaatc atcttgttac 420  
 ataca 425

<210> 21461  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 21461

agcttggtga ataaccattt aatgaaccta tctatgcatg catagcctat atccattatc 60  
 acaaagacta cctaccagca aatcattgaa attcactccc agcaccacag gcttgcttgt 120  
 cattaacaaa ataaccgaat attataaatc ttatgttcag gatcttttat tcattcaacc 180  
 tgctaggata acataaggaa gctgtgacat tatggcattg gactgcaacg aactacatc 240  
 atgatgctat aaccacataa caaacactag agagatccta cagttaagcg caatttttga 300  
 ttaaagatct agtgatgtta ttcacaacta gcaagtctag taagagtcaa tactcgatat 360  
 accactacta accttacatc caagcaatca tgaatcacca ctcat 405

<210> 21462  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21462

tccatcaagc agaatcatca gaaaggatcat ttgacaaatg ttcaaatacat taatccaaga 60  
 gactatcggg acttaaccac caagcagaaa ctatacctaa aagtttaacc actcgataaa 120  
 agcaacgagg cttaaccatt aagagcagaa acaaaacaac gattcaatgc ttaaccatcc 180  
 atgtcaaaaa cttaacaat gttaatacac cgcggacaga agcttaccag gacttttcac 240  
 aaacattgtg tgaatcaaca ataatacaag cttaatact catgatagaa gctaacaat 300  
 gaacaatgct taaccaccac acatgacaga agctaaaatc atcagaacaa gtcgaagaac 360  
 tntagaagta tntaatcaaa caccttgtag acaaacaaaa tctgaacact agacatgaag 420  
 aaacttacac aaactttgga g 441

<210> 21463  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21463

gtgtgagact atagggtact cagcatatgt ggcactatgt ggcgatcggg cgatagtgt 60  
 tgtcaactgt atccatacgc aaatgacaga taaatgcacc atccccaatt gccaccttc 120  
 gactgagctc acgtacttac acgtagacct tatcctcgtt cttattaaca ccgggtaccc 180  
 atcaatacct tctagcttcc ggcacatgca tgcaattcta catacaaaca tcatgagcta 240  
 tcttatcga taatatatgg cagatgcaga taactattgc tccaacacat ttcggtgccg 300  
 caacgtgacg tactcaaata ccgcagtcac attttcttcg ttgcgatagc acaaccgttg 360  
 gatcactcaa aactctactg gaggccttan gactaaatgg 400

<210> 21464  
 <211> 270  
 <212> DNA  
 <213> Glycine max



<400> 21464

tgcagagtta gtatgatttg gaacaaatat tcacttcttc agtttgattg ccggatcatca 60  
agcatgtttt aacccttgt ggctgttcga aaggaaaaca cctaatagtt gctccagtct 120  
cctcctttac ttttaactca tttcatcac tgctaaattg tgtaaagctt gatattagag 180  
ttgtgaataa atcatgttcc ttgtctaaac atgtgttgga aggtacatta tcaacatcaa 240  
aacatatagg cgaaaattgg gggggggggg 270

<210> 21465

<211> 317

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21465

agcttggttat gaggaagtgt ngaaggggtga aacttcctgc ttttatcggt gaccacagag 60  
tggtagctgg agatatgtcg caggggtcaa gagaccttgg ggacgtcatg tgggggtgcta 120  
ttgccccaaa ccaagcttga ccaatcccga cccaaccggg gcatagttgg tcagtgagaa 180  
cctgtgatgt acctaaacag gcgagctcct ggcagtcaac agataaaagg acaaagacc 240  
acaaagcaag gaggcttgtg gtggctggcc aactgtgaat tttgtgtgat atgtggatta 300  
tggcctcttg taatcga 317

<210> 21466

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21466

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gcatagcttg agcatatgat cggatcacat catttggttac ctgcatatat aaaaataaca 120  
acaacatcaa tattttttaa tcataacata attaacattc aattaaatag aatgtattac 180  
atacttttac agatctacga aggtgttgtt tccaaaaaga ggagtagttg tagattccat 240  
ggttaggct ttggtactaa cgtaagaag aagttaaaga gggatatatg agaacgagag 300  
aaagtgagtc tttagtgag tgtatatgat gacaatacat gcattgtata tatagaaaaa 360

aattaacact atcataattt attcggttgg atcttgggtca ttgattttgt

410

<210> 21467  
<211> 232  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21467

cgtttgcaag cttgtatcca ttttaagaga atgagcatgc gagtagaagt atgactaana 60  
atgtcactta gtttgtcaga ttgattgtga aggaatgcat taaccgtatc ccggtgagag 120  
tgtgatcctt aaattctgag agaaatgact atcatttagt actgattttt gcatgaatct 180  
ctaaagtatg gattgaatgc atgaaattaa ggatgatgaa agccatgggt ta 232

<210> 21468  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21468

ntacattata ttaaaatcaa tgactttgat gtaatacttt ttattttattc tgatataatt 60  
ttatctctcc tctttgtaat gagataattc ttcaataaca gttttttttc tccactttta 120  
cttagttgat tttattcctg aattaataaa aaaaattacc aactaatatc cttcccttca 180  
actgttcatg tataattgca atctgtgtat tattttttaa atttactctt caacggatgg 240  
aaggaactac acaaagccgc taagtcacca agaataacta catccagttt ttatccagat 300  
ttttacataa tagctacacg ttattnttct gtaagtgtac attatttttc tctattattn 360  
ntttctatct aactcccacg caaggaagtg catatccaac tgaatcatgt actaattgca 420  
tccgttggtc ctttatat 438

<210> 21469  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21469

agctttataa aatttcattt tgctgaaaca atttccatat ataaattagt tagatataaa 60